Oscar Manager System.

User Guide

Release V3.5

www.datacomsys-us.com

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Before You Begin

Technical Support

If you cannot find the answer to your question in this manual or in the Help files, we recommend you contact your system installer.

Your installer is familiar with your system configuration and should be able to answer any of your questions.

If you need additional information, please call our Technical Ressource Center

Phone: 305.867.0508 / 1.888.658.3247
Internet: www.datacomsys-us.com
Email: support@datacomsys-us.com

O.S.C.A.R is a user friendly, wireless, and completely automated solution that allows marinas and RV parks to obtain quick, precise, and reliable water and electricity meter readings from one central location.

OSCAR is a very small autonomous communication transmitter module that collects electrical pulses from an electro-mechanical digital counter.

OSCAR sends the output information by radio, and displays the output in the desktop **O.M.S** software for direct billing to customers.

OSCAR 's work is based upon a programmed static (and programmable) network.

Each OSCAR transmits via radio, its information and information from other OSCARs in its network memory table.

Therefore the OSCARs coverage can reach long distances.

Intirely automated, the **OSCAR Management System** (O.M.S.) software allows the harbor manager to track in real time the electricity and water consumption coming from each pedestals at the marina location.

The management is based on the principle: One boat / One place ➔ One COUNTER

➔ It is possible to have up to 4 counters (water or electricity) by OSCAR.

➔ For each place /counter, a **BOAT's NAME** and a **CUSTOMER's NAME** are attribuate.

➔ **O.M.S.**, manages the counters by real time counting. *(real counter between two dates)*

➔ This allows the manager of the marina to obtain **actual consumption** of electricity or water for a transient or monthly customer (date to date).

O.M.S. possibility.

➔ **Populate the place with a boat and customer name.**

- Automatically sets the counter back to zero.
- A starting date of counting is saving.
- New counting start.

➔ **Individually consultation.**

Display counter.

➔ **Group consultation (by Pier).**

Without modifying the parameters you can display the counter by group (pier) or for all.

➔ **Consultation / Exportation / RAZ.**

This will allow the manager to automatically display all the counters, export them to Excel (or other format) and set the counters back to zero.

The Transitient are not included in this function. (managed manually).

➔ **Manage the check OUT of transient.**

Allows the manager to individually manage the departure of the transients, by downloading and editing their counters.

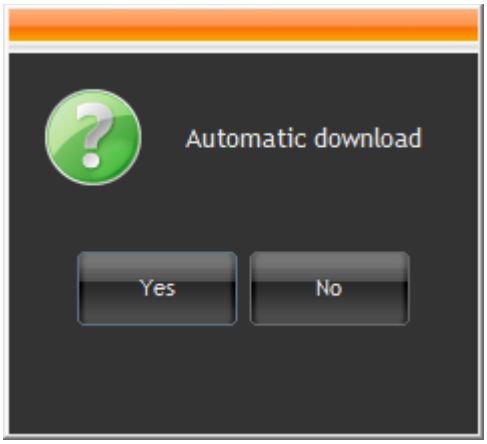
And in the same time, clear the name data (boat and user) and reset the counter.

MENU
Oscar Manager System V5.01
DataComSys
0
KW
CUSTOMERS
COUNTER DOWNLOAD
REPORTS
INVOICING
PARAMETERS UTILITIES
EXIT
O.S.C.A.R.
DEMONSTRATION
DATACOMSYS
www.datacomsys-us.com

GENERAL MENU OSCAR MANAGER SYSTEM

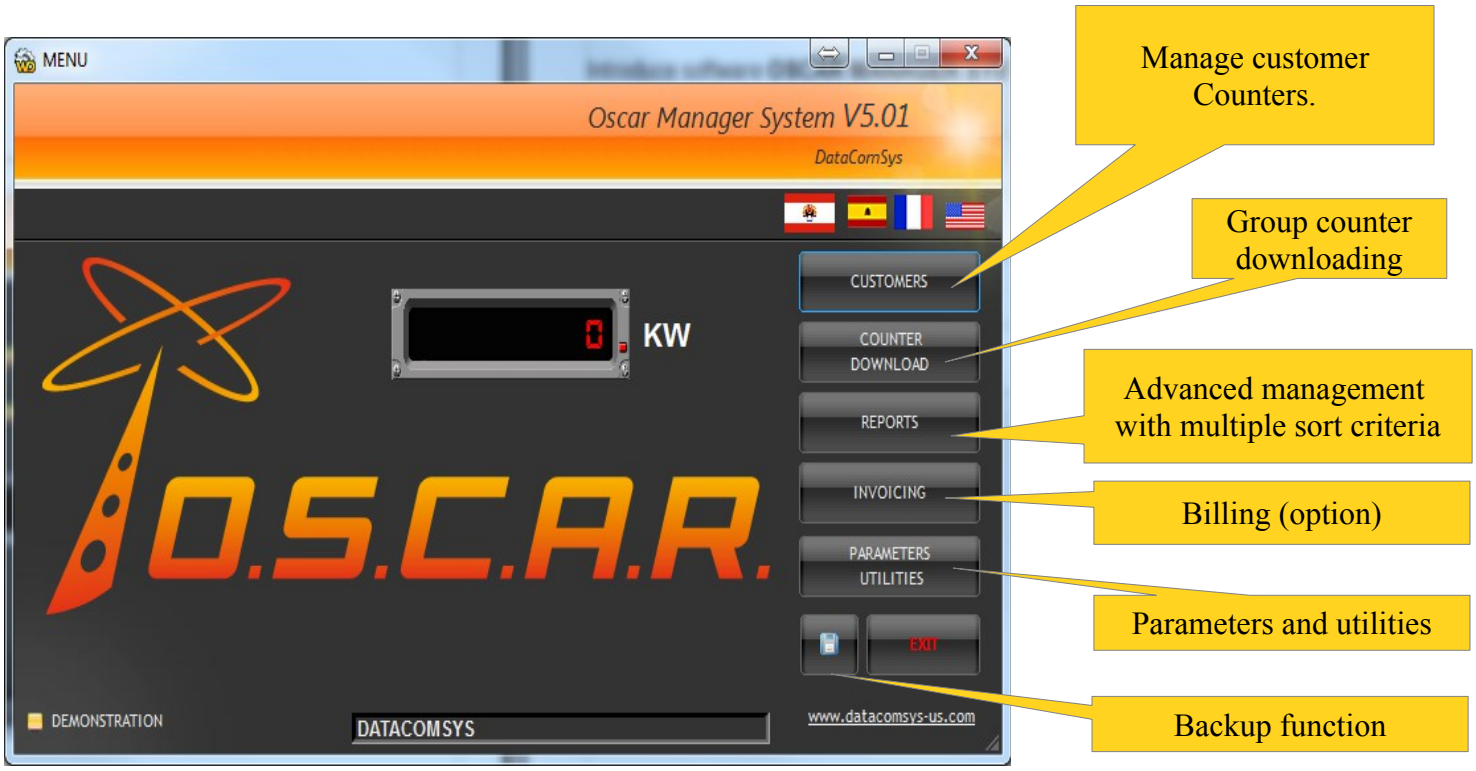
As you start OMS, you are directed to the main menu.

If the automatic download is avalaible (option in parameters window) this window will open.



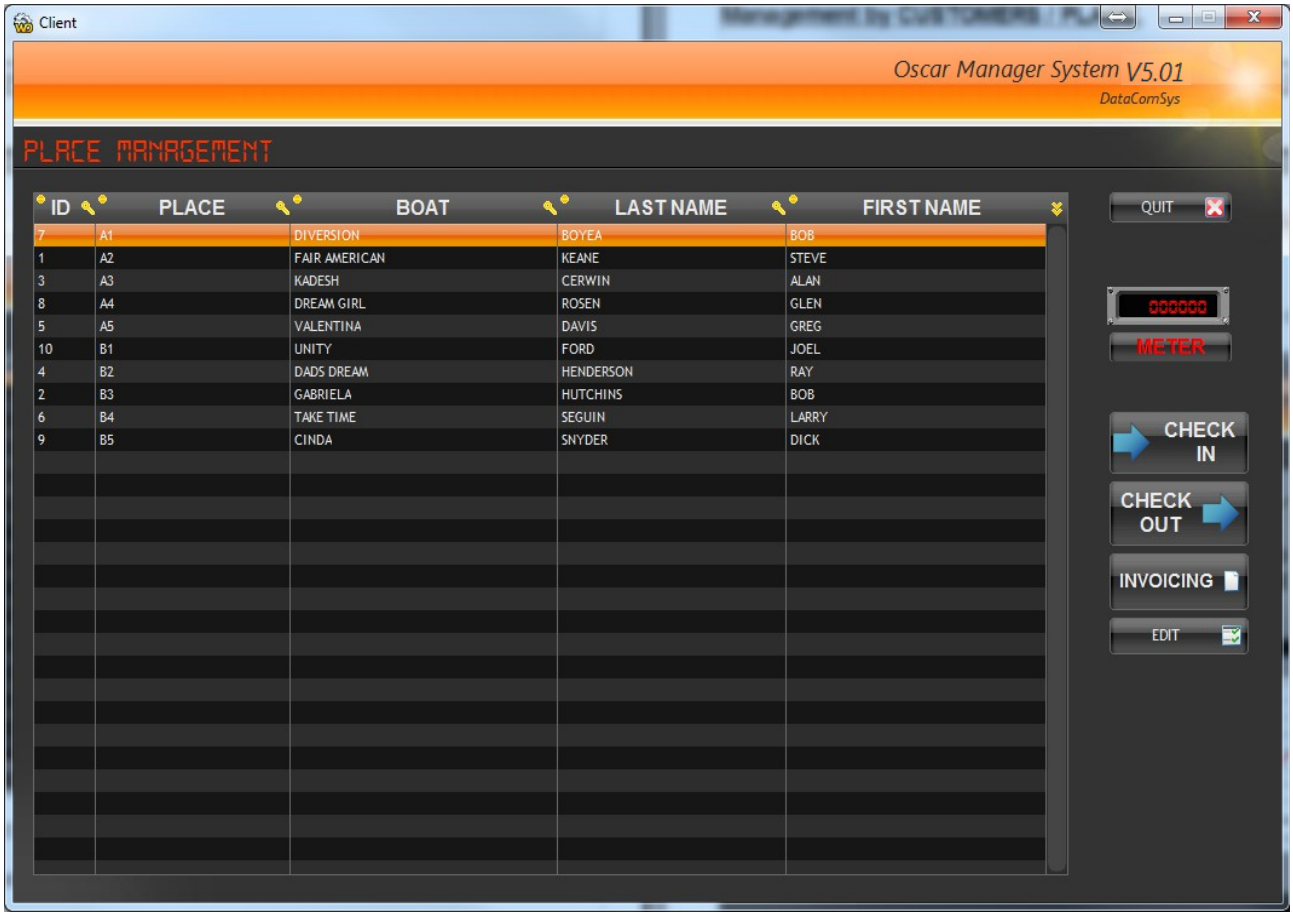
The automatic download can update the database counters for statistical management.

This will check the data every time the application is started.



Demonstration Mode: *Allows demonstration tests without real radio communication.*

Management by CUSTOMERS / PLACE.



On this Window you can select three important functions:

- ➔ Direct Access to the counter display. (double click on **METER** button)
- ➔ Check IN.
- ➔ Check OUT.
- ➔ INVOICING (direct billing)

The **Counter Display** function, allows the manager to display the counter without modifying the parameters.
(selected by double clicking on the **CUSTOMER** or **BOAT** name or **METER** button).

The **CHECK-IN** function allows the manager to validate the arrival of a new boat/user with a back to zero of the counter and a save of the date.

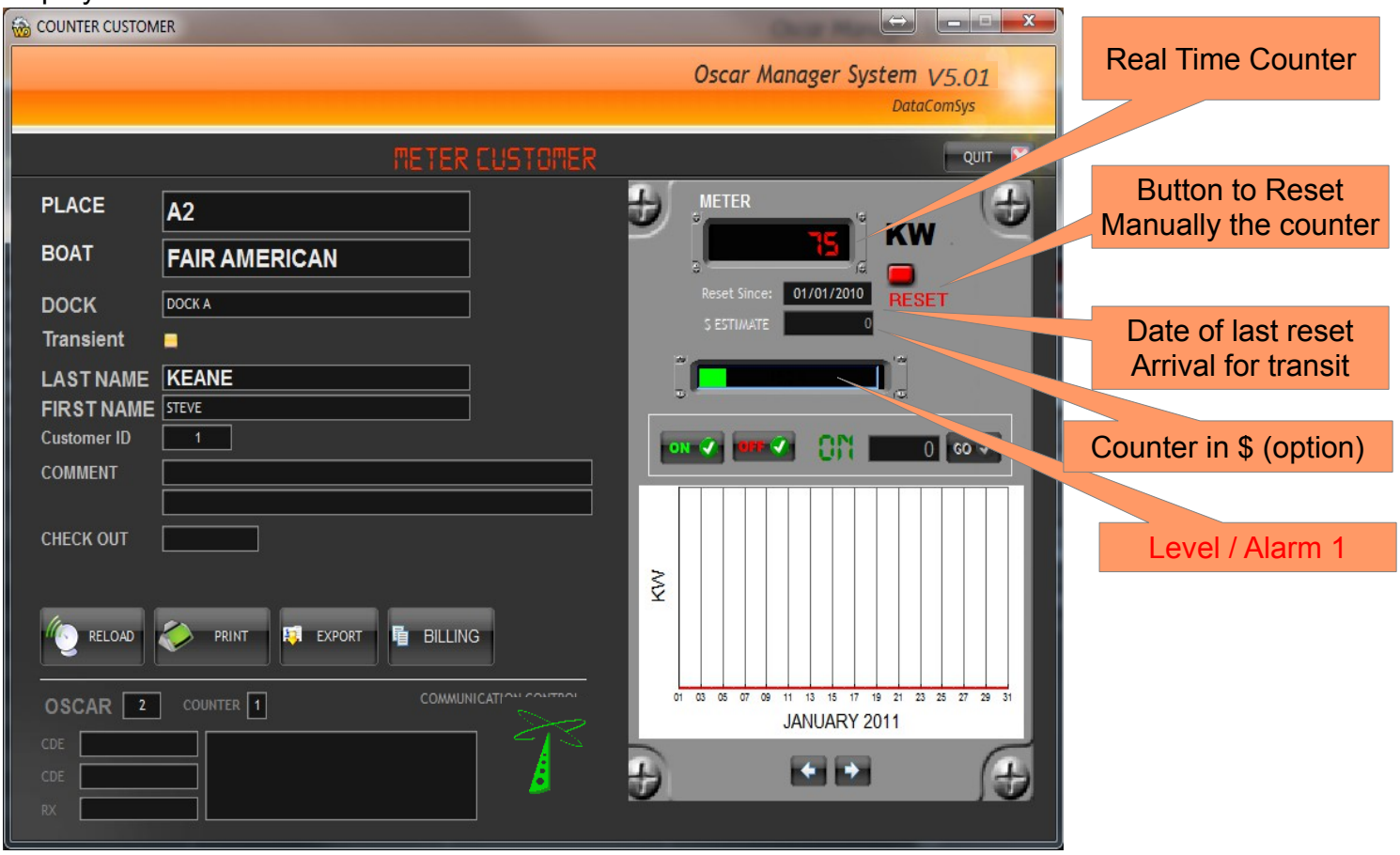
The **CHEK-OUT** function allows the manager to validate the departure of a boat/user, display the counter, and to print or to export the counter of consumption during the transit.

The **INVOICING** function allows the manager to directly edit invoices for any items.

The **EDIT** function allows the manager to modify customer parameters (Name, adress ...).

Counter Customer Display

By selecting a customer and clicking on the counter button or double clicking on his name, you will display this Window:

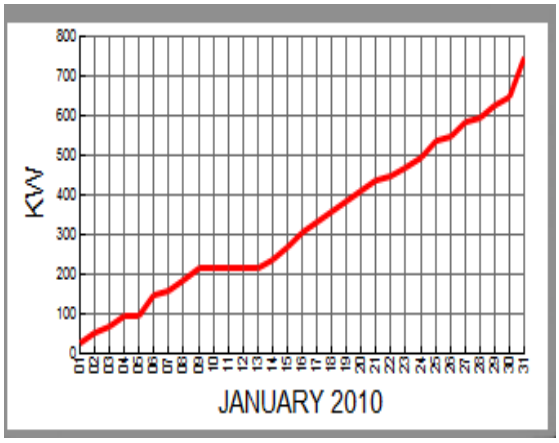


Counter (meter) is displayed with the type (KW, Gal.)
….. displayed during transmission.
(to make the difference between communication and counter to zero)

Date of last reset.
If you want to reset manually: Click on the **RESET** button.

The **Level / Alarm** is a bar-graph counter value display, the max is the Alarm value. (define in parameter function).

- If counter is under the value of the alarm, the bar graph is green.
- If the counter exceeds the value of the alarm , the bar graph is red.



Data on the Month Graphical Value, are displayed only if you have downloaded data before (each day).

Theses buttons (← →) allows the manager to display last or next month.

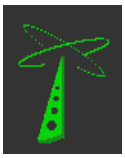
Theses icon are used only with **OSCAR-MAX**
To **Switch ON** or **Switch OFF** electricity or water distribution.

ACTIONS

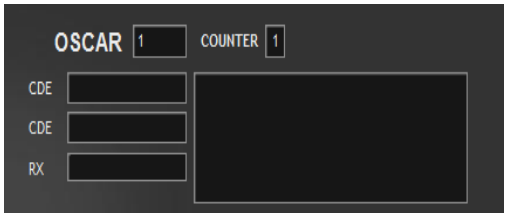
REFRESH:

With this Button, you can start another OSCAR communication (Download), and refresh the counter.

The software will communicate with the appropriate OSCAR and download the new counter value.

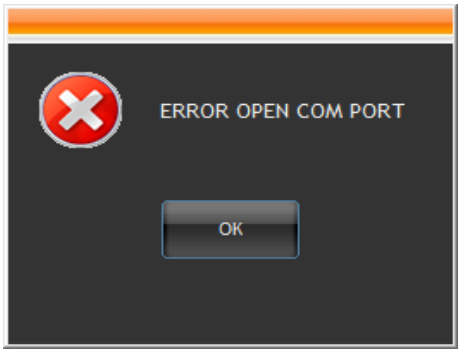


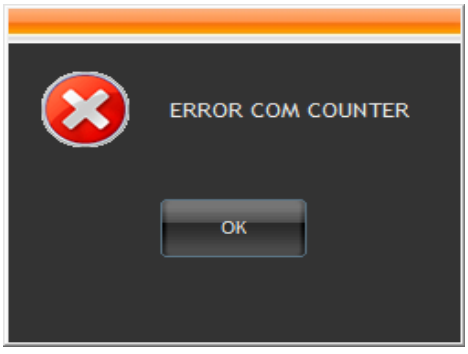
This icon is displayed only during radio-communication.
At the same time, you will hear a small "beep" when data avalaible is received.



The window with the OSCAR number ,CDE and RX are radio status indicators and are displayed for maintenance purposes.

In case of communication error, theses messages are displayed:





ERROR COM PORT This is an Radio Base communication issue (USB mode)
ERROR SOCKET This is an Radio Base communication issue (IP mode)

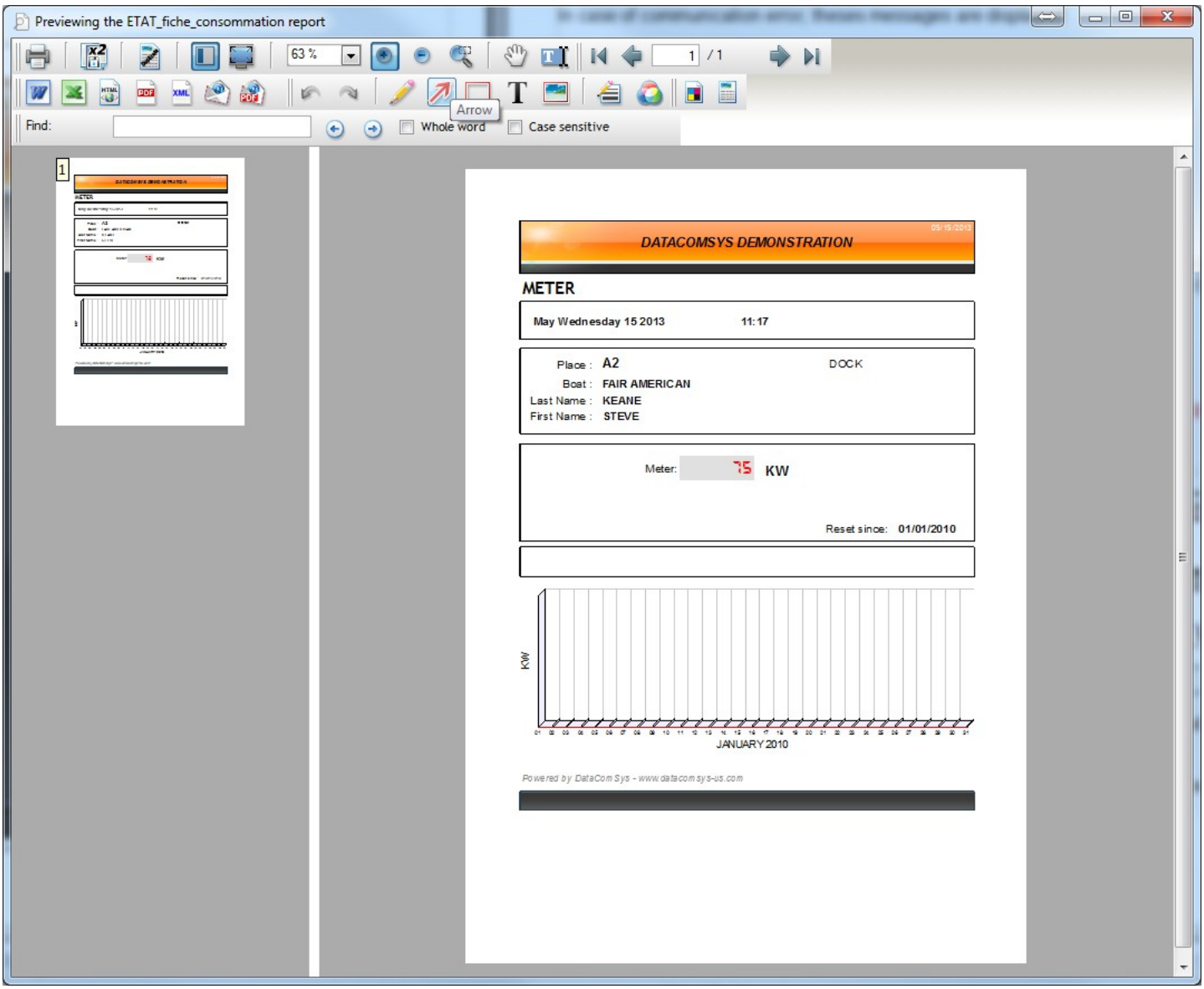
Check the radio base connection.

ERROR COM COUNTER This is an OSCAR communication problem.

Check the OSCAR or pedestal power and try again.

PRINT

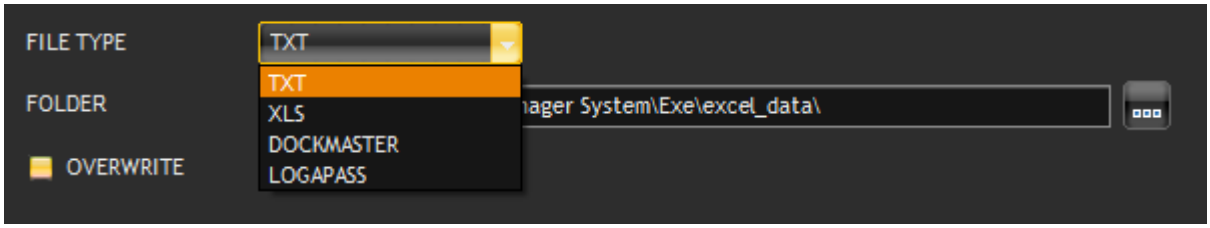
With this button you can generate a sheet with the counter and graphical display.



EXPORT:

If you use a **Marina Manager Software,** by clicking this button a file is automatically generated to export data (customer, counter, boat etc.)

You can parametrize the format of theses datas on the parameter windows (data export format).



There are 4 datas file export format:

TXT

Name: date_code.txt

PLACE	COUNTER	BOAT NAME	CUSTOMER NAME

PLACE A1-1,00000,FAIR AMERICA,KEANE

XLS

Name: date_code.xls

PLACE	COUNTER	BOAT NAME	CUSTOMER NAME

PLACE A1-1,00000,FAIR AMERICA,KEANE

DOCKMASTER

Name: ELECTRIC.DAT

TIME	PLACE	COUNTER	DATE

14:06:11,PLACE A1-1,00000,01/23/2012

LOGAPASS

Only for DataComSys with LOGAPASS interface.

Application Programming Interface for OSCAR MANAGER SYSTEM (V1.1)

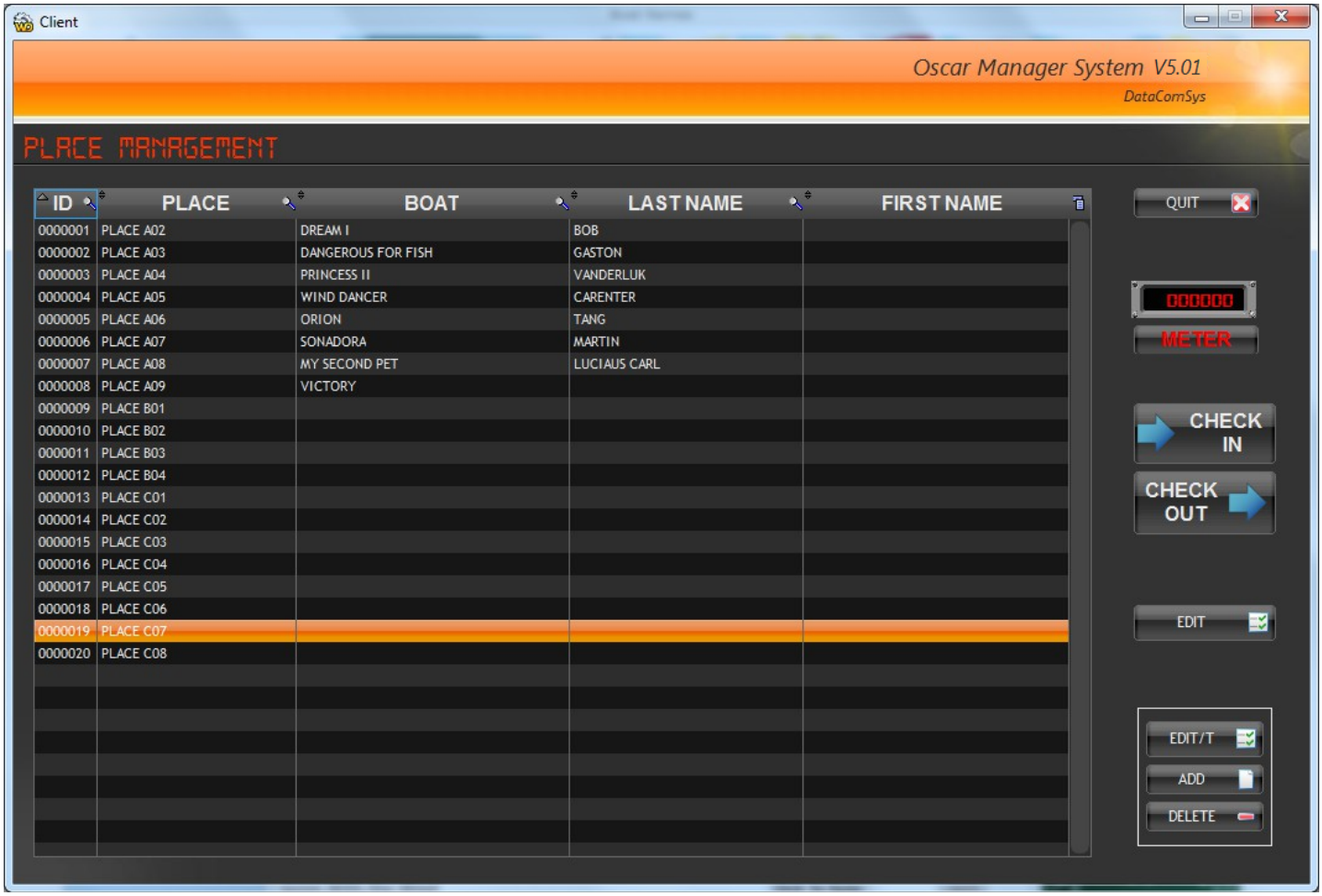
The **O.M.S. API** enables developers to interact with the **O**scar **M**anager **S**ystem software via a single command.

Oscar Manager System is the software to download ,manage and modify counters connected to OSCAR.

So, with **O.M.S. API** command line, you can :

- ➔ Download a counter.
- ➔ Reset a counter.
- ➔ Switch ON a channel (socket).
- ➔ Switch OFF a channel (socket).

Each counter is identified by an ID number (you can find the ID list in O.M.S. user list).



The **ID** number will never change.
It's defined during the OSCAR installation, it's the physical counter place.

To interface with **O.M.S. API** you must send a command line after the name of the OMS software.

C:\Oscar Manager System\Oscar Manager System.exe **TRC0000001**

The format for the command line is :

MODE	COMMAND	OSCAR ID
T or N	See Command Table	000000 to 9999999

Mode :

To test the API, you can check **T** mode, even if there is no Radio and no OSCAR connected to the computer, there will be a response , for each command with a random counter (time in minutes).

Normal Mode is : **N**

COMMAND :

Command Table (V1.1):

COMMAND	DESCRIPTION
RC	Request Counter
SR	Reset Counter
SD	Set Socket Down *(Only OSCAR Max).*
SU	Set Socket Up *(Only OSCAR Max).*
SV	Set Socket Up with specific Value *(Only OSCAR Max).*

OSCAR ID :

This is the ID number for each counter (place) check in the OMS place management windows software.

Returning informations.

There are two way to capture the information.

The first one is sent directly by OMS software in return mode.
It's a number :

Positive 0 to 999.999 it's the counter.
Négative 0 to 9 is an error (see error table).

The other way is in a file name : counter_data.txt in excel_data directory. (in Oscar Manager Software directory).
With theses informations:
554;PLACE A02;DREAM I;BOB;20130129;0914;

COUNTER (or ERROR NUMBER);PLACE NAME;BOAT NAME;LAST NAME;FIRST NAME;DATE;TIME ;

The data are removed at each new command.

ERROR CODE :

ERROR	DESCRIPTION
-1	Command unvalaible
-2	Error Format (Wrong number of caracters)
-3	Unknow ID
-4	Communication Error 1 (No response)
-5	Communication Error 2 (Data Corrupted)
-6	Communication Error 3 (Error Command OSACAR MAX)

- In OSCAR-MAX mode, 0 is returned if it's OK.
- All communictions parameters are defined in OMS software.
- Working only with O.M.S. 3.47 and higher.

Example :

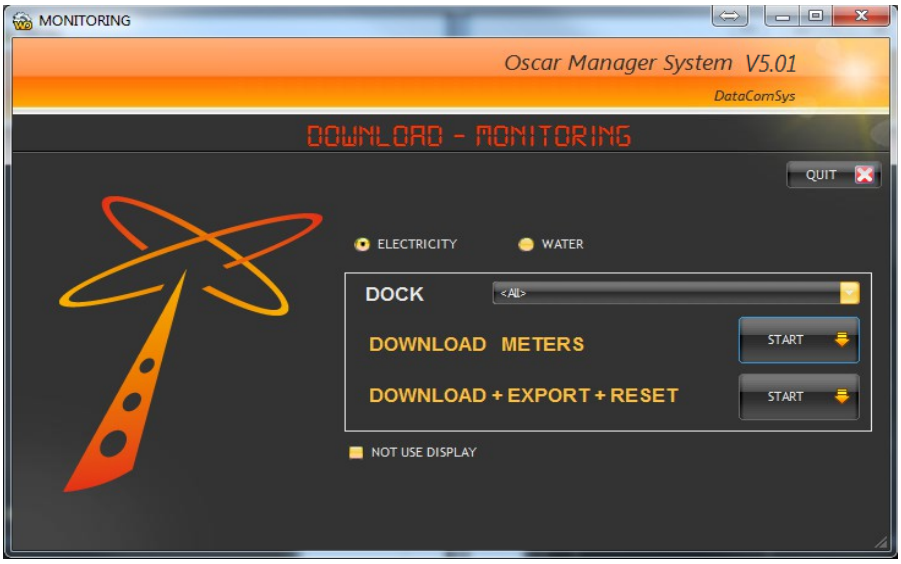
TRC0000001 Request counter ID 0000001 in mode test.
NRC0000001 Request counter ID 0000001 in mode Normal.
TSR0000304 Reset Counter ID 0000304 in mode test

DOWNLOAD / MONITORING

The DOWNLOAD window allows the manager to download the counters (METERS) by groups.

DOWNLOAD METERS

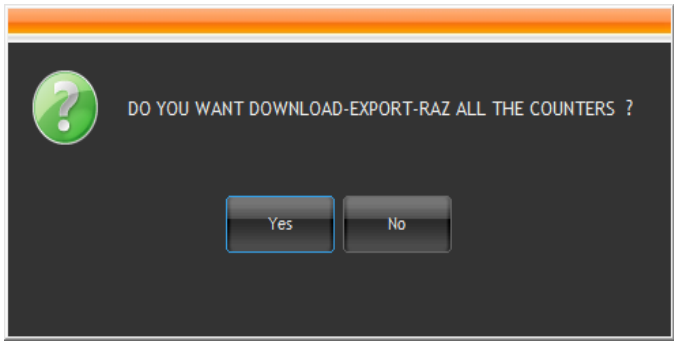
Allows the manager to download automatically the counter of the entire marina or by DOCK.



Select **Electricity** or **Water**.
Select the **DOCK** or all (default) and click on START button.

DOWNLOAD + EXPORT + RESET

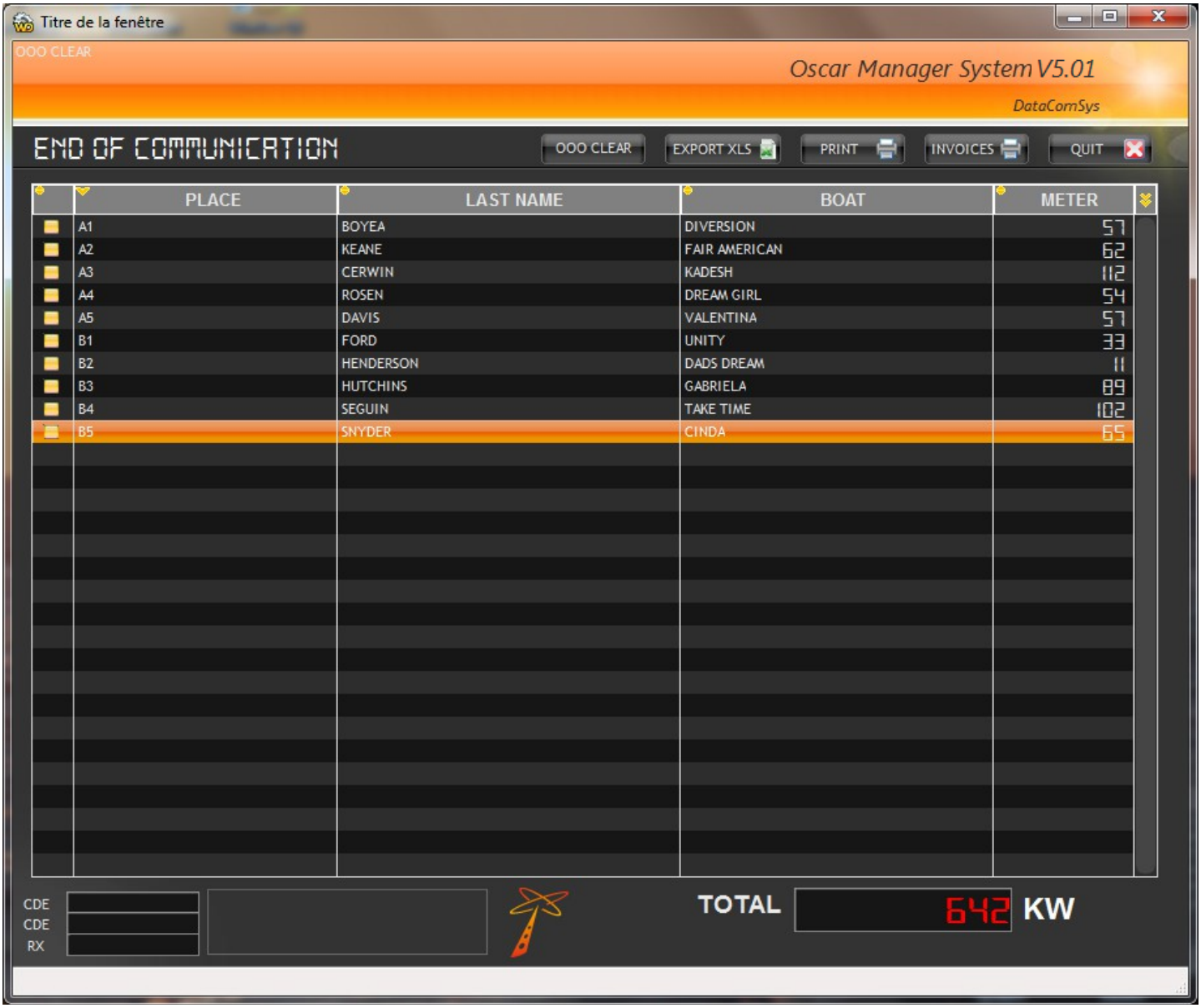
Allows the manager to automatically retrieve all marina counter data, create an export file and turn to zero all the counter.
The system will ask you if you really want to use the function.



If YES is selected the system will:

- ➔ Download all the counters.
- ➔ Export data counters **ACCORDING** to export files parameters.
- ➔ Reset all the counters.

DOWNLOAD METERS



The system will communicate with each OSCAR to recover counter.

Communications data between the computer and OSCAR are displayed in this box.

Total consumption is displayed in this box.

If it's was not possible to download the counter an ERROR message is displayed in place of the counter.

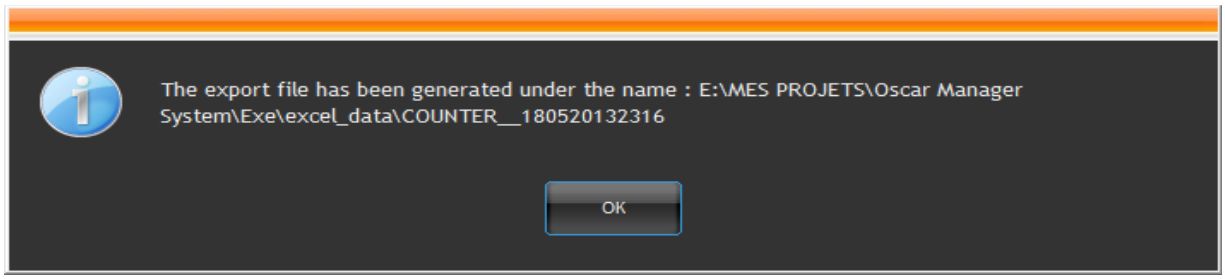
Download function Button:

OOO CLEAR

Allows the manager to display **only** place with counter over 0000.
This is very usefull when there are many places,but not many are being used.

EXPORT XLS

Generate an XLS file with all the counters in the folder excel_data
with datetime name.


The export file has been generated under the name : E:\MES PROJETS\Oscar Manager System\Exe\excel_data\COUNTER__180520132316
OK

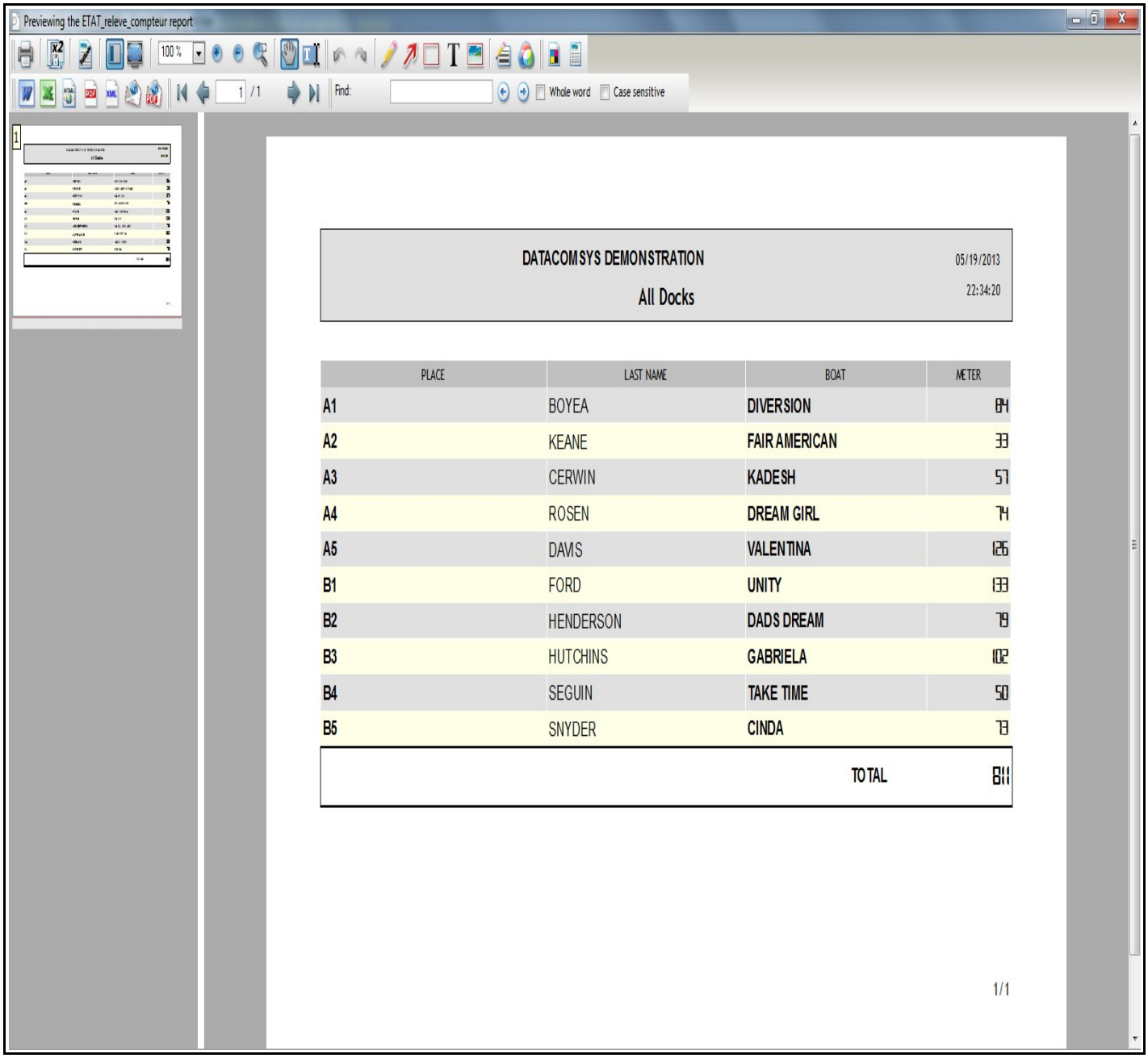
PRINT

Print all the counters with the print manager window.
(displayed in next page)

INVOICES

Genrate automatically invoices if invoices parameter are selected.

Example of printing data:



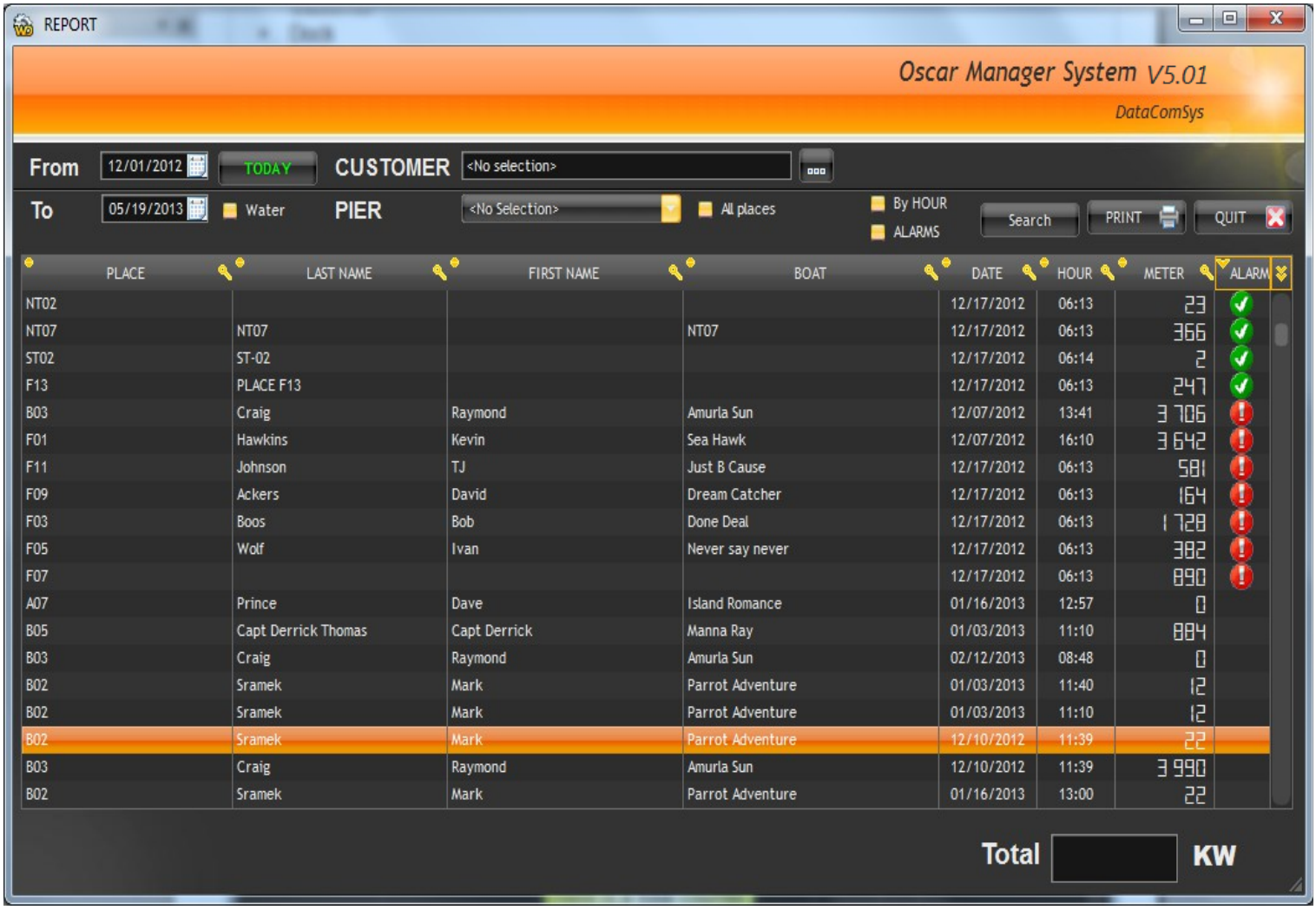
REPORTS:

In this window, you can review counter place sorted by:

- Date to Date.
- Water or Electricity.
- Customer
- Dock or PIER
- By Hour
- Only the ALARMS

The data displayed are data **downloaded in the computer database** during each communication.

If you want to display data for each day, you must operate an "ALL COUNTER DOWNLOAD" each day.


REPORT
Oscar Manager System V5.01
DataComSys
From 12/01/2012 TODAY CUSTOMER <No selection>
To 05/19/2013 Water PIER <No Selection> All places By HOUR ALARMS Search PRINT QUIT
PLACE LAST NAME FIRST NAME BOAT DATE HOUR METER ALARM
NT02 12/17/2012 06:13 23
NT07 NT07 NT07 12/17/2012 06:13 366
ST02 ST-02 12/17/2012 06:14 2
F13 PLACE F13 12/17/2012 06:13 247
B03 Craig Raymond Amurla Sun 12/07/2012 13:41 3 706
F01 Hawkins Kevin Sea Hawk 12/07/2012 16:10 3 642
F11 Johnson TJ Just B Cause 12/17/2012 06:13 581
F09 Ackers David Dream Catcher 12/17/2012 06:13 164
F03 Boos Bob Done Deal 12/17/2012 06:13 1 728
F05 Wolf Ivan Never say never 12/17/2012 06:13 382
F07 12/17/2012 06:13 890
A07 Prince Dave Island Romance 01/16/2013 12:57 0
B05 Capt Derrick Thomas Capt Derrick Manna Ray 01/03/2013 11:10 884
B03 Craig Raymond Amurla Sun 02/12/2013 08:48 0
B02 Sramek Mark Parrot Adventure 01/03/2013 11:40 12
B02 Sramek Mark Parrot Adventure 01/03/2013 11:10 12
B02 Sramek Mark Parrot Adventure 12/10/2012 11:39 22
B03 Craig Raymond Amurla Sun 12/10/2012 11:39 3 990
B02 Sramek Mark Parrot Adventure 01/16/2013 13:00 22
Total KW

REPORTS CONTROL PANEL

Before displaying data counter, you must select which data you want to display and after select the **SEARCH** button.

Date:
With calendar box able to select data to date counter displayed.
Clicking on **TODAY** button will select current date.

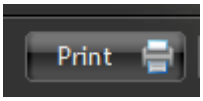
PIER or DOCK:
By default, there is no selection is for ALL Dock or Pier.
You can select only one Dock or Pier.

CUSTOMER:
By default, <no selection> displayed ALL Customer. You can select only one customer.

By Hours:
if there is a lot of download by day, you can select **By HOUR**, data are sorted by hour for all the days.

Alarms:
Checking this box allows the manager to display only data counter with ALARM

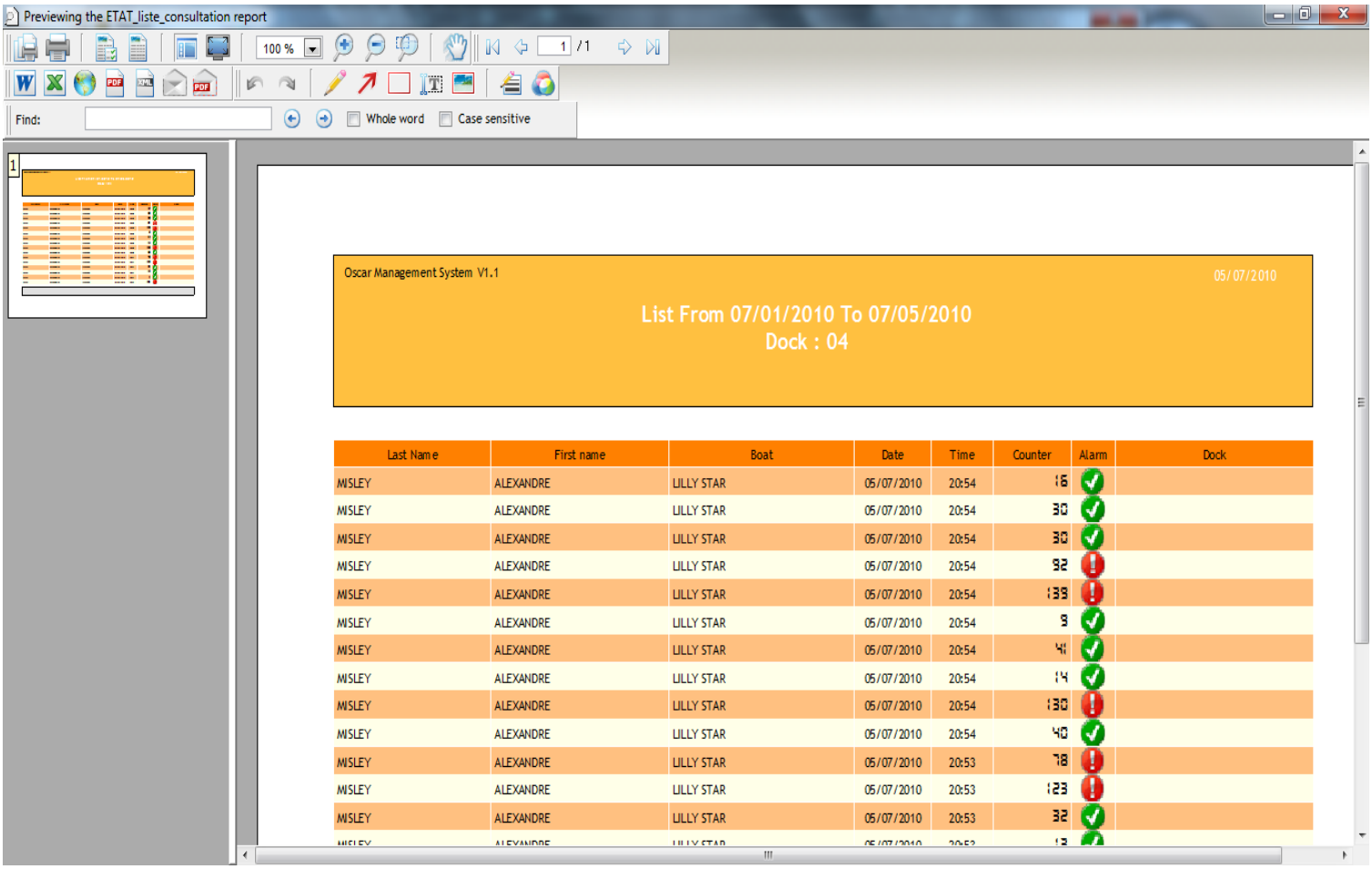
PRINTING REPORTS:



By clicking on the **PRINT** button, the manager open the **Printing Report Module.**

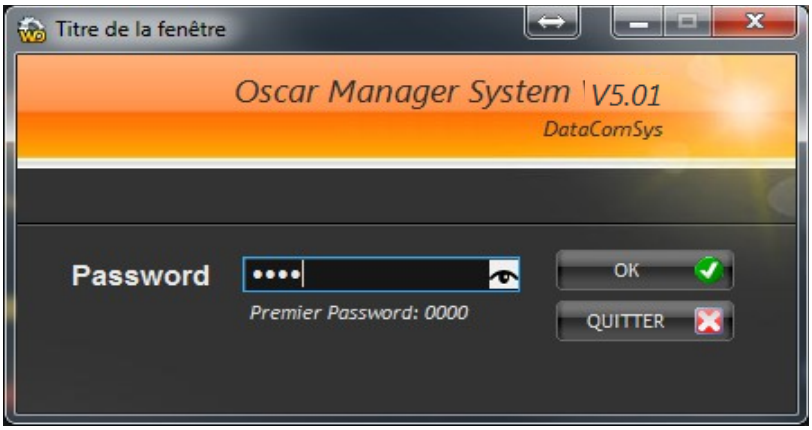
In this module the manager can:

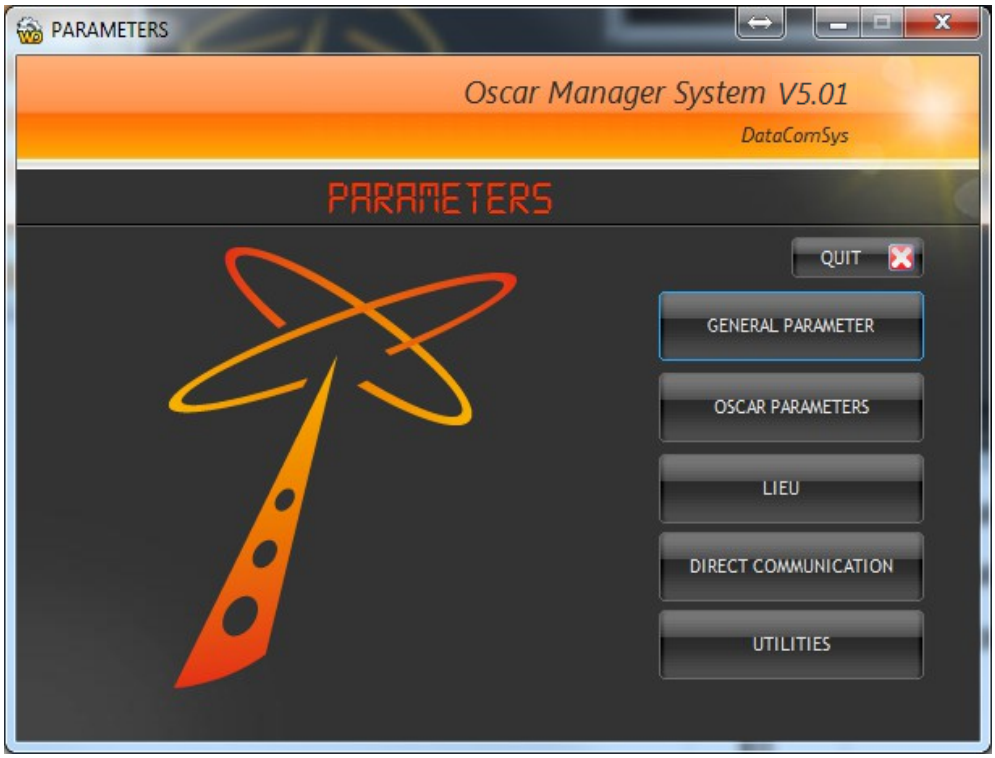
- Add comments or drawing in the report.
- Export the report to Word, Excel, PDF, HTML format.
- Send an email including the report.
- Print the report.


Previewing the ETAT_liste_consultation report
100 %
1 /1
Find:
Whole word
Case sensitive
Oscar Management System V1.1
05/07/2010
List From 07/01/2010 To 07/05/2010
Dock : 04
Last Name
First name
Boat
Date
Time
Counter
Alarm
Dock
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 16
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 30
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 30
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 92
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 139
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 9
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 41
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 14
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 130
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:54 40
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:53 78
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:53 123
MISLEY ALEXANDRE LILLY STAR 05/07/2010 20:53 32

PARAMETERS & UTILITIES

To access the PARAMETERS function, there is a password: 0000 (first time)





GENERAL PARAMETER: System configuration

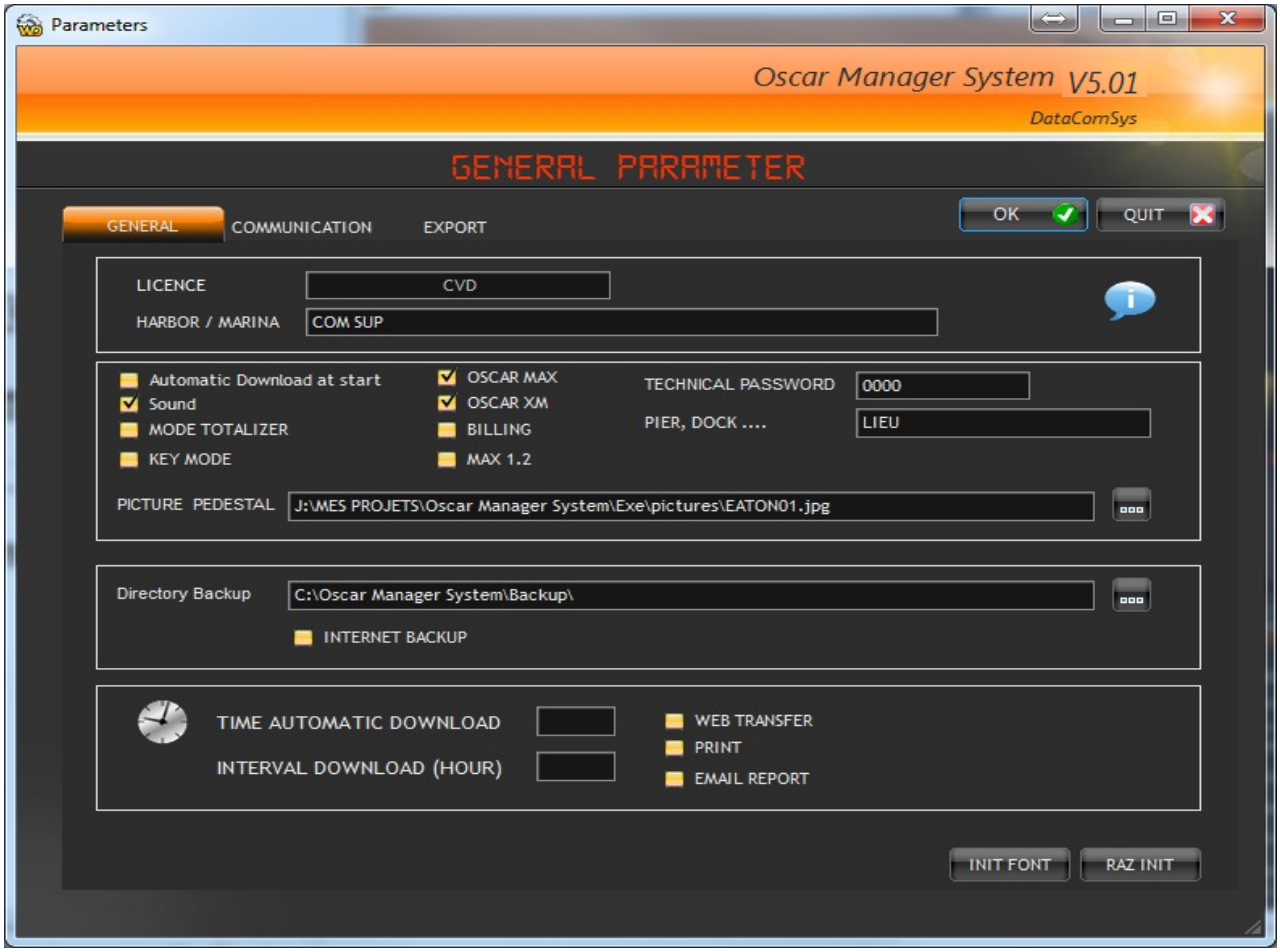
OSCAR PARAMETERS: OSCAR configuration

DOCKS PARAMETERS: Name and groups for each docks.

DIRECT COMMUNICATION: Reserved for support.

UTILITIES: Reserved for OSCAR mapping configuration

GENERAL PARAMETER:



GENERAL

LICENCE: Define by DataComSys- it's your ID (three letters)
HARBOR/MARINA: Your Harbor name (you can modify it).

Automatic Download at start: If select, at starting, software download all the counters ?
Sound: A "POP" is heard at each communication OK.
Mode TOTALIZER: Counter are never reset to zero.
Key MODE: Only for specific OSCAR-MAX with electronic key's control.

OSCAR-MAX: Enable OSCAR-MAX model (ON-OFF switch system).
OSCAR-XM: Depending of OSCAR model (XM latest version).
BILLING: Select, Billing mode is active
MAX 1.2: Select for only older OSCAR-MAX model.

TECHNICAL PASWORD: Password for Technical parameters (0000 by default).
PIER, DOCK: Name for Pier or DOCK displayed in the software.
(some user prefer DOCK, others PIER …).

PICTURE PEDESTAL: You can select the picture of the pedestal (or harbor) displayed on the bill or counter information paper.

DIRECTORY BACK UP: You can select where you want to backup the data. (which directory).

The Backup function is on the main windows – **floppy disk** icon.

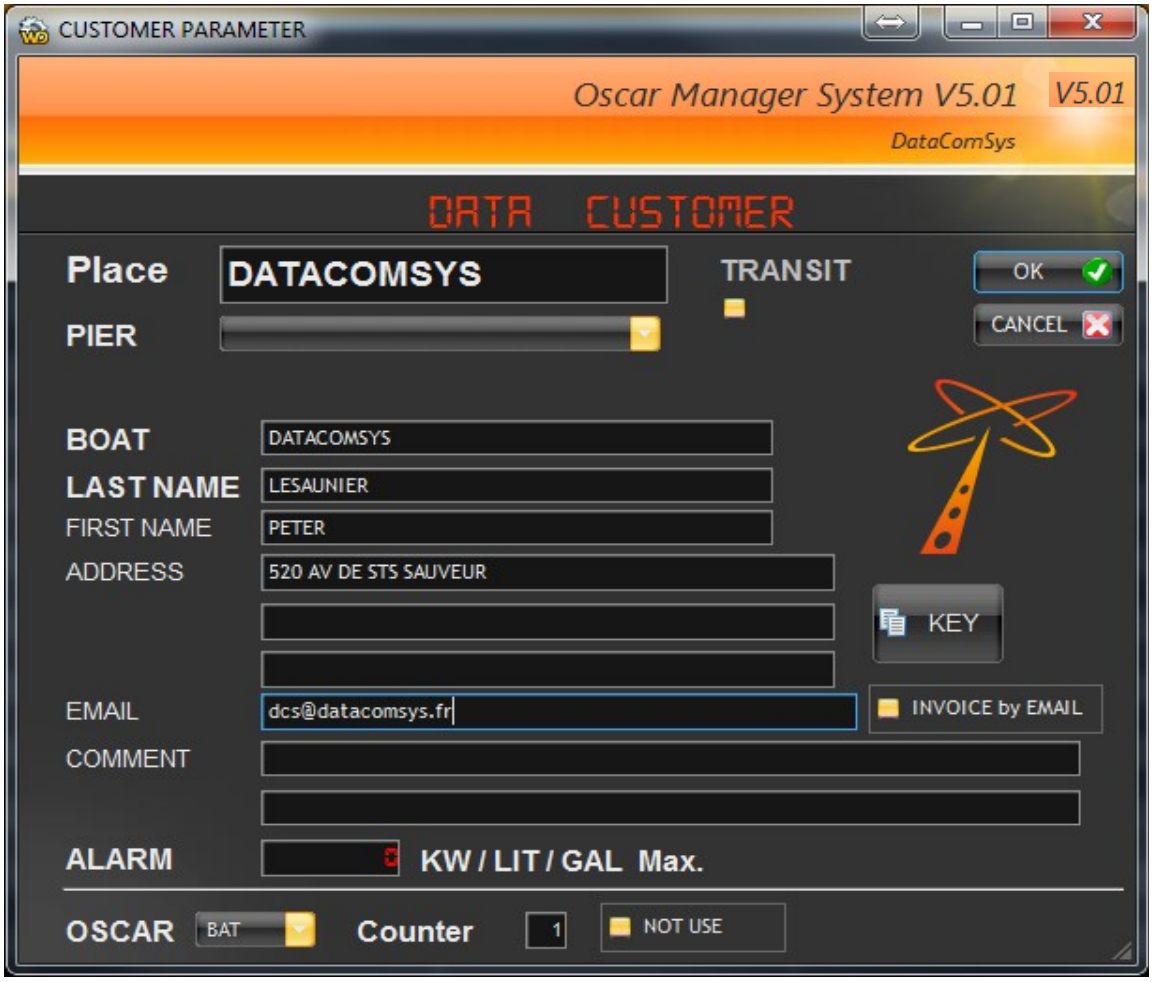
The Backup function, copies all the data and the software in a separate directory.

Call support for recovery data.

INTERNET BACKUP: it's an option to backup data on DataComSys datacenter via Internet.

TIME AUTOMATIC DOWNLOAD and other option are not available yet for this version.

Customer Parameters Windows:



Customer ID: As you like, but it's generally the same number of your Marina Manager Software.
First Name: First Name
Last Name: Last Name
Boat: Name of the Boat
Dock: select the Dock place
Place: The number or name place (if it is one of them)
Comment : Free comments

OSCAR: Select the number of OSCAR, identify with the pedestal number. *(generally there is a map of pedestal implantation).*
Socket Number: Enter the number of the socket (1 to 4).

Alarm : Enter the maximum value which will display an alarm, when you consult the counter (total consumption).

ID, First Name and Last Name are unique

HARDWARE INSTALLATION GUIDE

- MIAMI RADIO INSTALLATION GUIDE
- O.M.S. SOFTWARE INSTALLATION
- O.M.S. TECHNICAL PARAMETERS
- OSCAR HARDWARE

O.M.S SOFTWARE INSTALLATION

Select and start the software **OMS_CVG_501.exe (or any OMS_xxx_5yy.exe)**

- xxx is your code client.
- Yy is software version.

Choose your language:

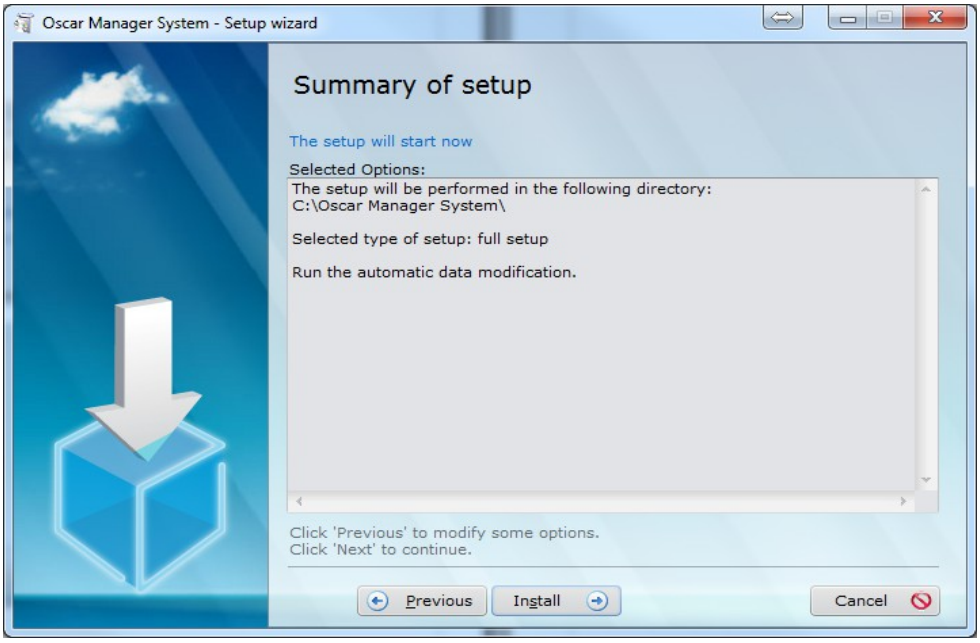
Lets the software select the directory:

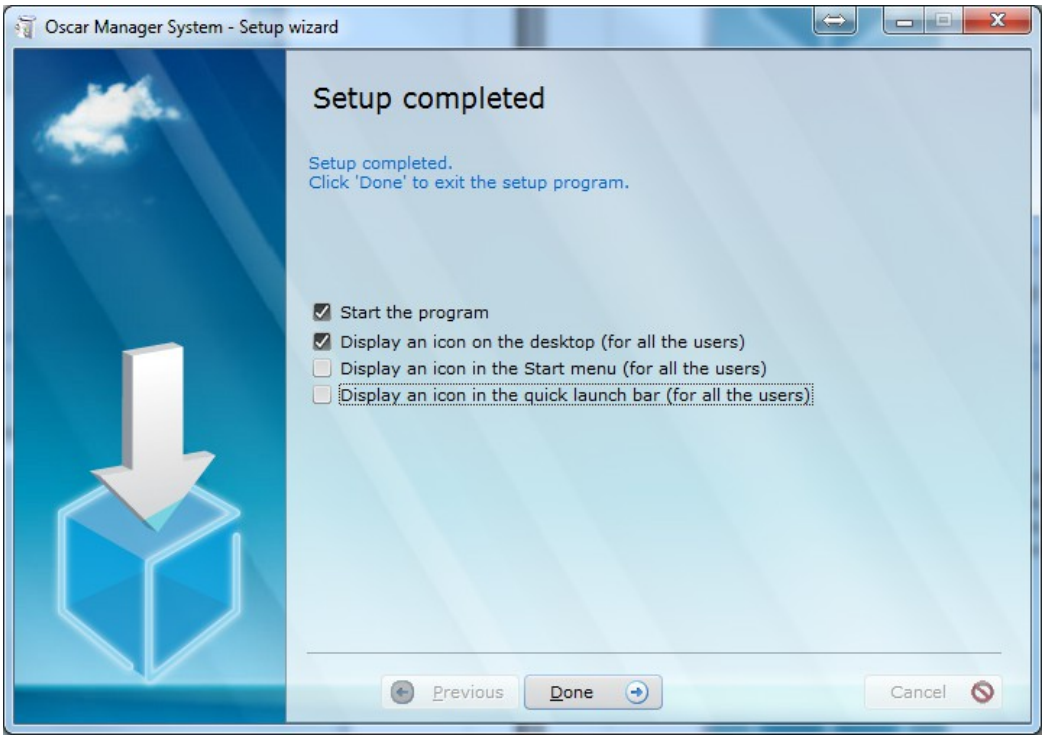
Oscar Manager System - Setup wizard
Welcome to the setup wizard of Oscar Manager System
Version: 4.07
This program will install Oscar Manager System on your computer.
We recommend that you close all the curent applications before running the setup program.
The application will be installed in directory:
C:\Oscar Manager System\
Previous
Next
Cancel

it's highly recommended to install OMS alone, in the main directory c:

and select **Next** button:

Select Install:


Oscar Manager System - Setup wizard
Summary of setup
The setup will start now
Selected Options:
The setup will be performed in the following directory:
C:\Oscar Manager System\
Selected type of setup: full setup
Run the automatic data modification.
Click 'Previous' to modify some options.
Click 'Next' to continue.
Previous
Install
Cancel


Oscar Manager System - Setup wizard
Setup completed
Setup completed.
Click 'Done' to exit the setup program.
Start the program
Display an icon on the desktop (for all the users)
Display an icon in the Start menu (for all the users)
Display an icon in the quick launch bar (for all the users)
Previous
Done
Cancel

Select only:

- ✔ Start Program
- ✔ Display an icon

OMS is ready and starts automatically.

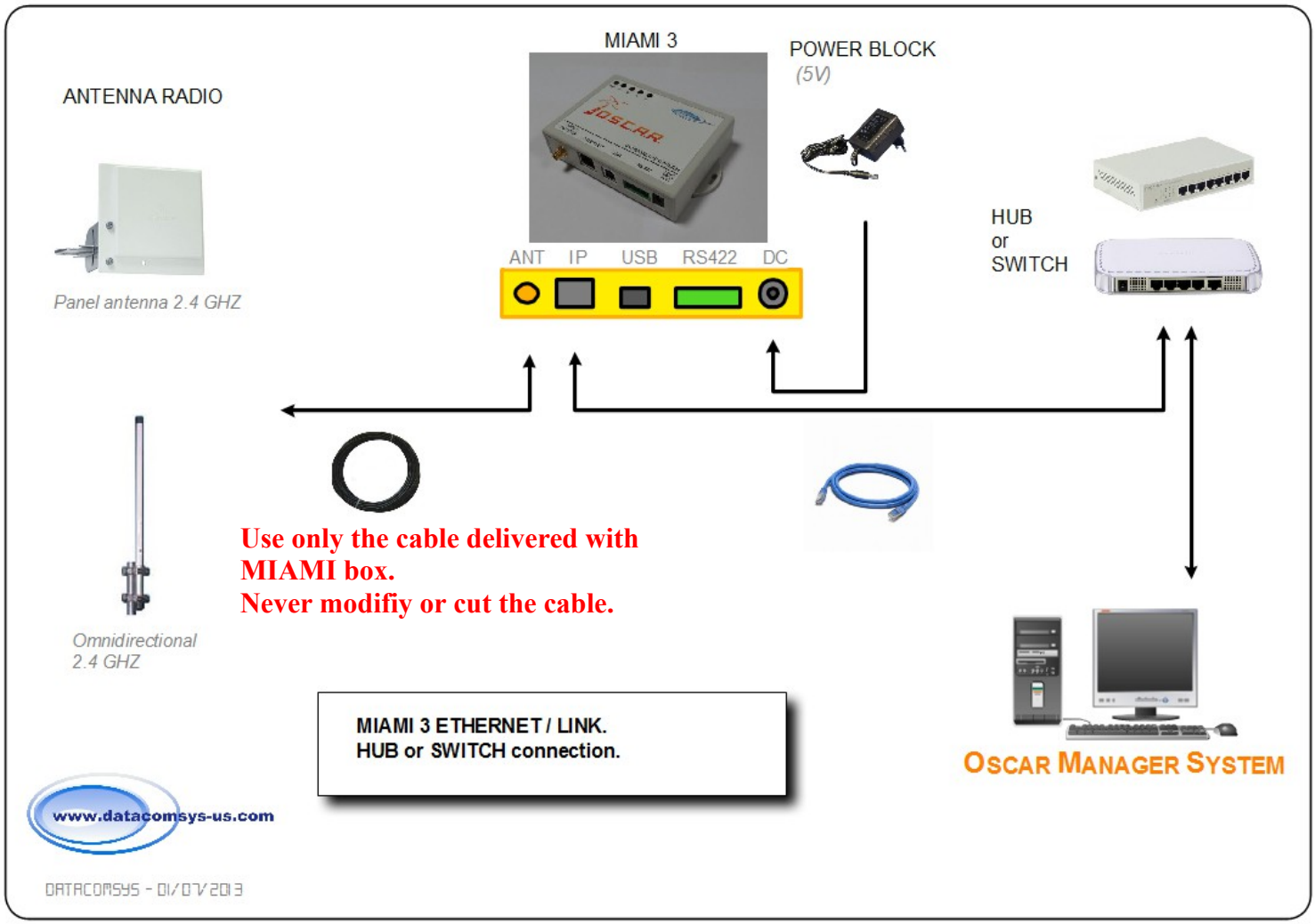
MIAMI III Radio Installation

MIAMI is an universal Radio-Modem for OSCAR communication between OSCAR and computer (with OMS software).

There are two possibility for connection:

- USB.
- Ethernet/IP.

You can connect one or the other.
Selection is automatic.



ETHERNET / IP Connection:

The IP RADIO BASE uses a LANTRONIX Ethernet module.

The only parameter that Oscar Manager System needs is the IP address. (a network address).

By default the module is configured for automatic DHCP IP address connection.
Check with the network administrator to determine which method applies

You can download a software to identify and manage the LANTRONIX module according to your network.

www.datacomsys-us.com/download/LANTRONIX_DI.exe

Before verifying the IP address, you must connect the IP Radio Base module to the Ethernet network and power.

- One connection to an Ethernet connection with an FTP cable (to the router).
- One connection to power block (110V).

(for testing, it's not necessary to be connected to the antenna).

It's a standard RJ45 connection, with automatic 10/100 Mbit detection.

When the module is connected, there are two lights (leds) on the Ethernet connector.

When the module is connected:

- **LIGHT 1 will be solid green.**
- **LIGHT 2 will blink green or orange during communication.**

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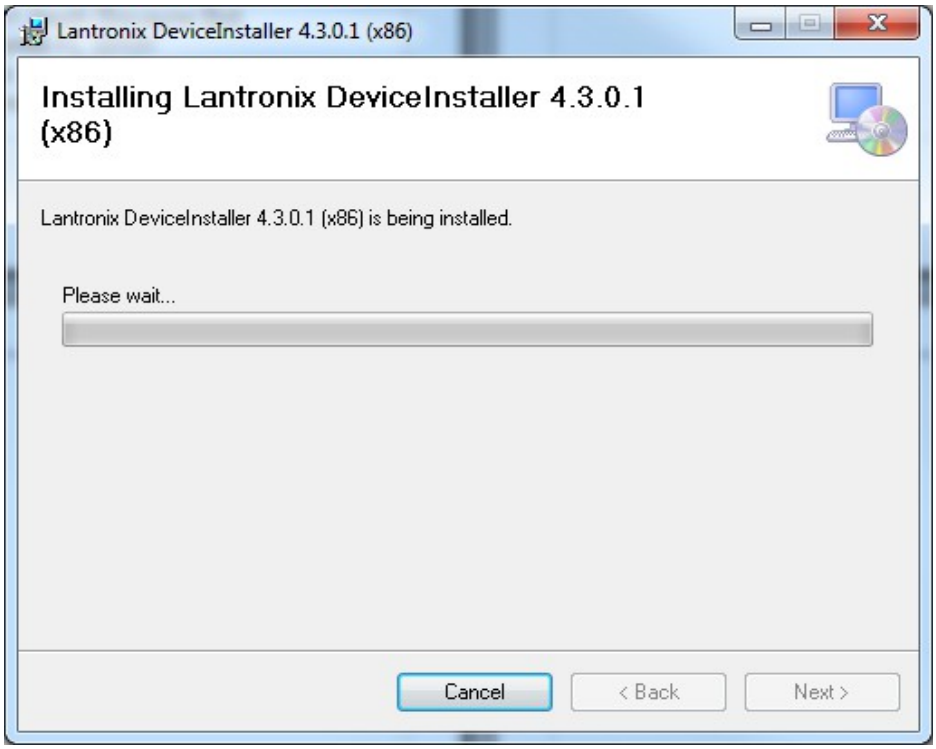
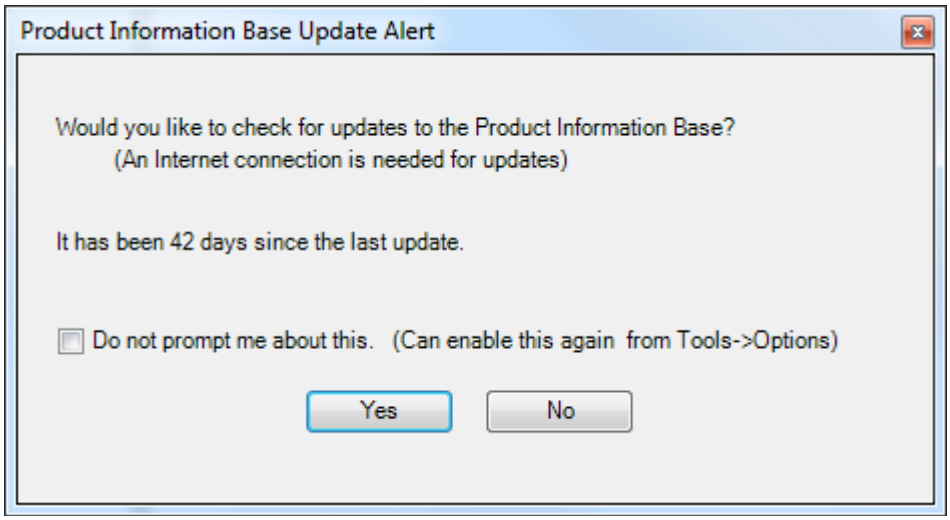
INSTALLING and USING DEVICE INSTALLER

➔ Download the software.
➔ Execute the installation software

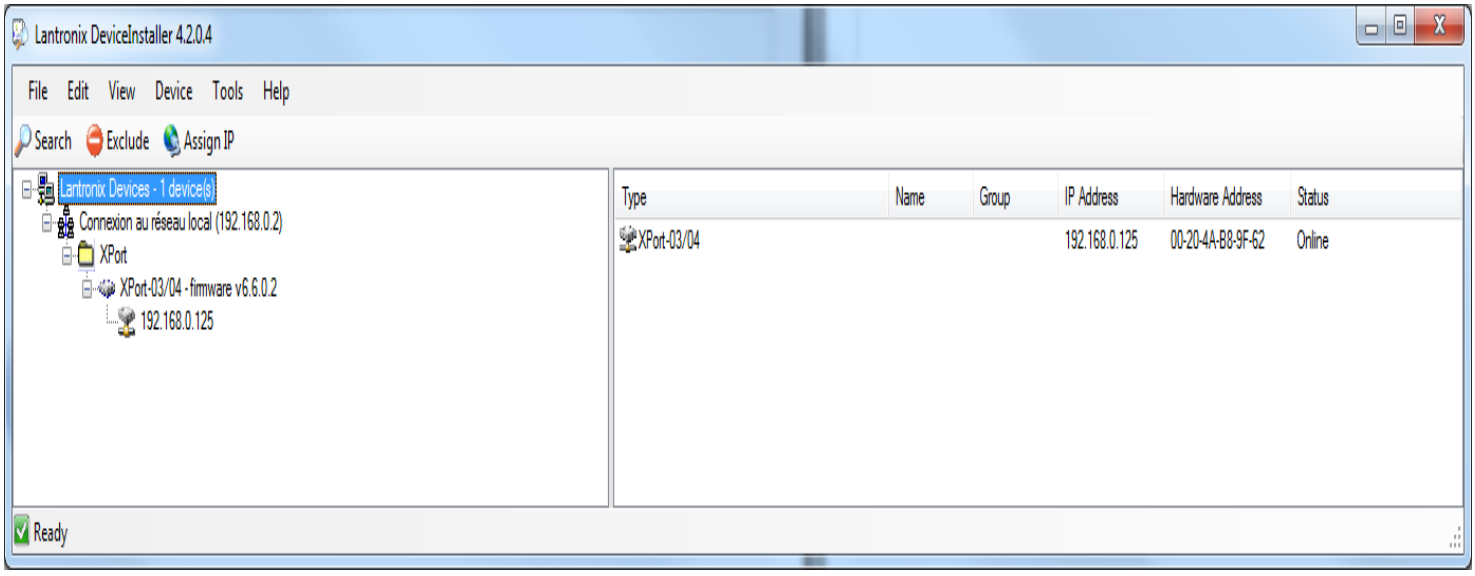


➔ Launch the software

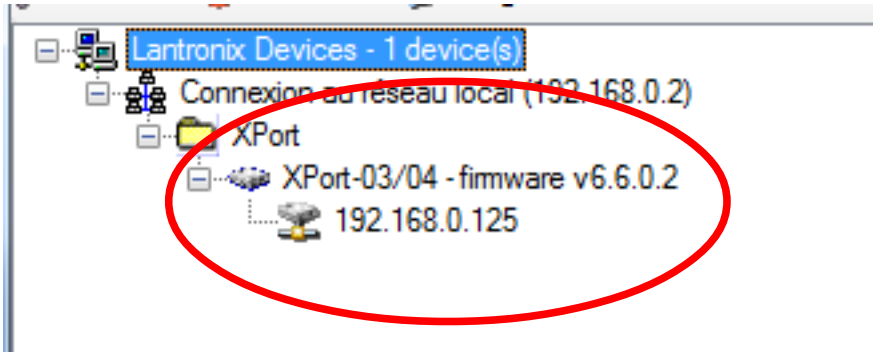

Product Information Base Update Alert
Would you like to check for updates to the Product Information Base?
(An Internet connection is needed for updates)
It has been 42 days since the last update.
Do not prompt me about this. (Can enable this again from Tools->Options)
Yes
No

Eventually, the software will ask about a specific check for updates, select NO, because the LANTRONIX module is already in the Product Information Base.

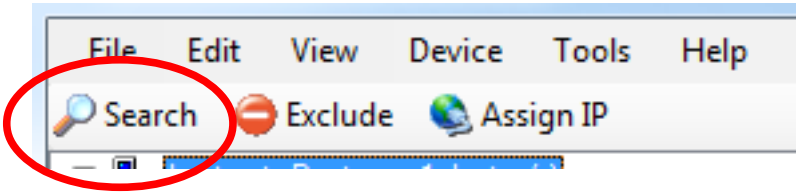
Immediately, the software will scan the network to find the LANTRONIX module, and you will see this window.



And the software confirm the IP address for this module.



If there are no **LANTRONIX X-PORT** detected, verify if the Radio Base IP is well connected and powered and try again with the SEARCH function.



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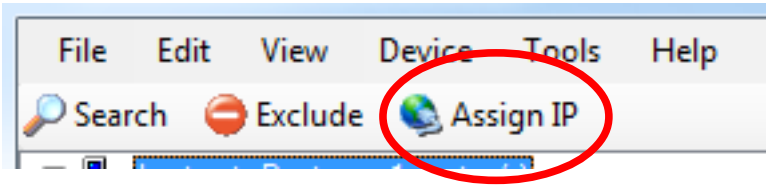
If the IP address is in **BLACK,** no problem, everything is **OK** and we can select this address in Oscar Manager System.

If the IP address is in **RED**, it means that:

- There is also another system at the same address.
- The network does not have the same network "range" (192.168)

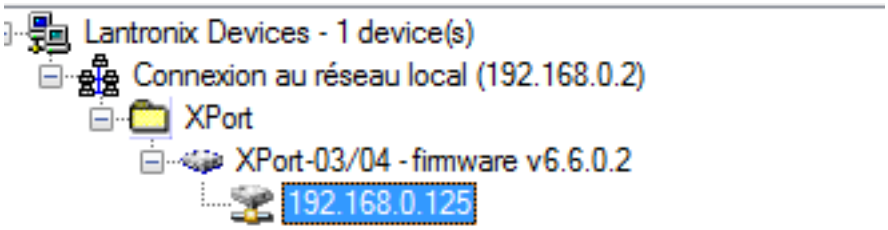
In the two case, you must change the module IP address with the **ASSIGN IP** function.



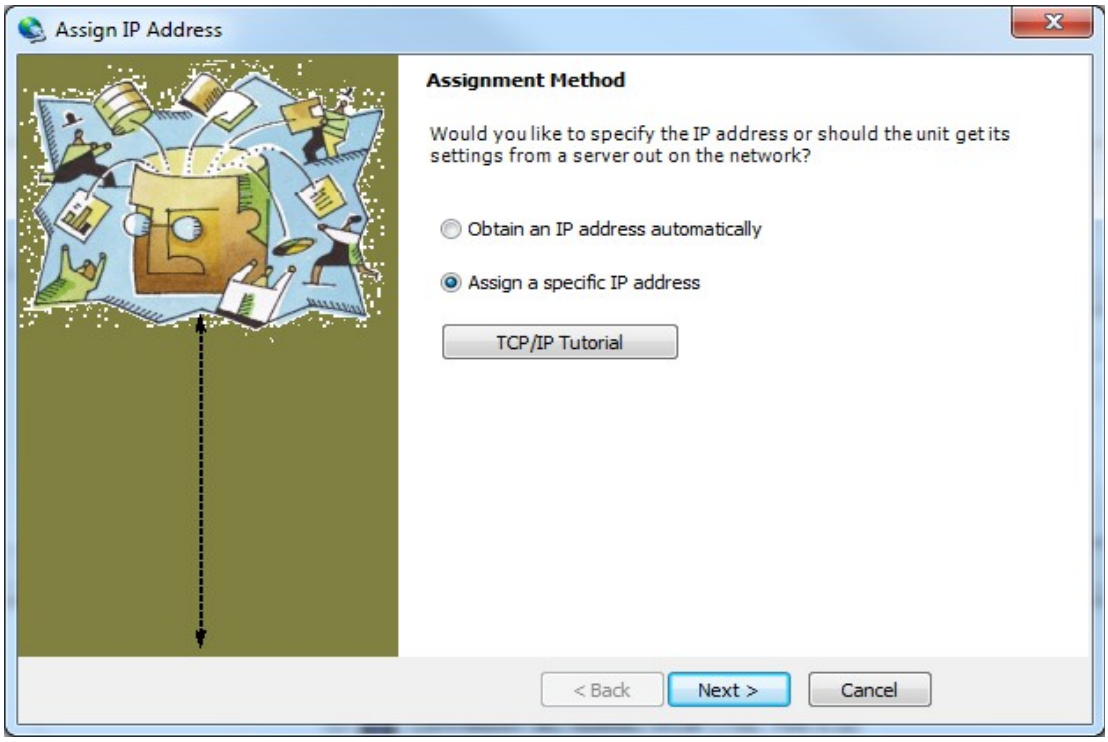
Before changing the IP address, it's necessary to check with the IT manager which address you can choose according with your network.

MODIFY IP ADDRESS

Select the actual IP Address.

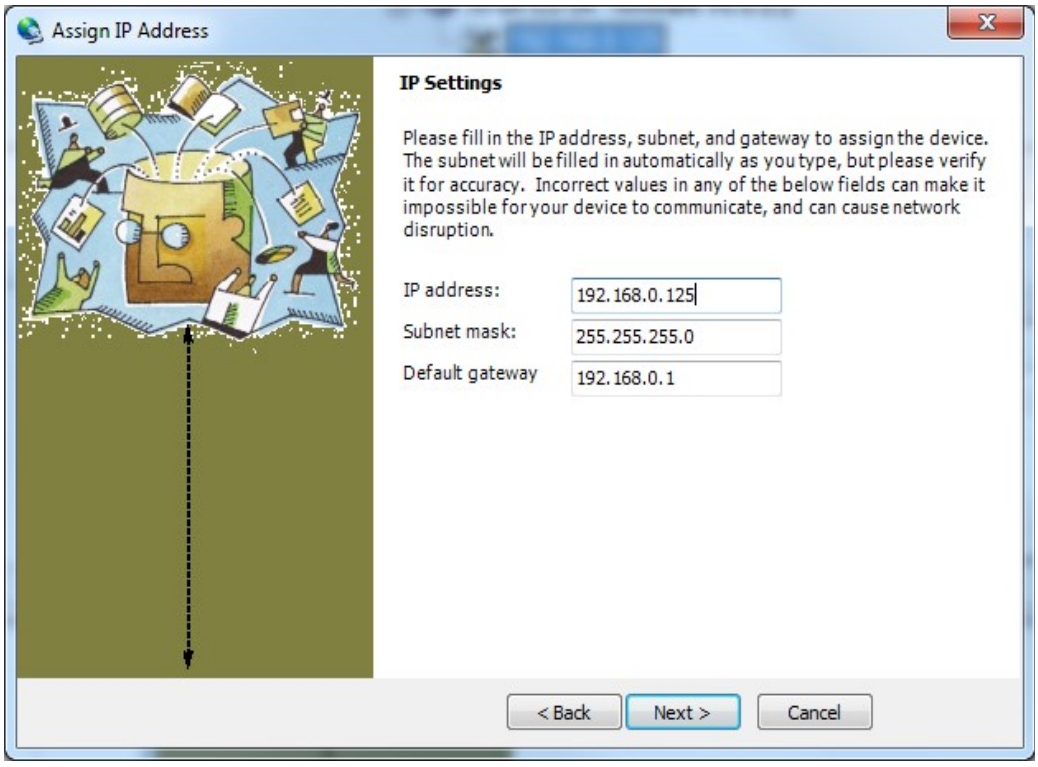


➔ Click on **ASSIGN IP**


Assign IP Address
Assignment Method
Would you like to specify the IP address or should the unit get its settings from a server out on the network?
Obtain an IP address automatically
Assign a specific IP address
TCP/IP Tutorial
< Back
Next >
Cancel

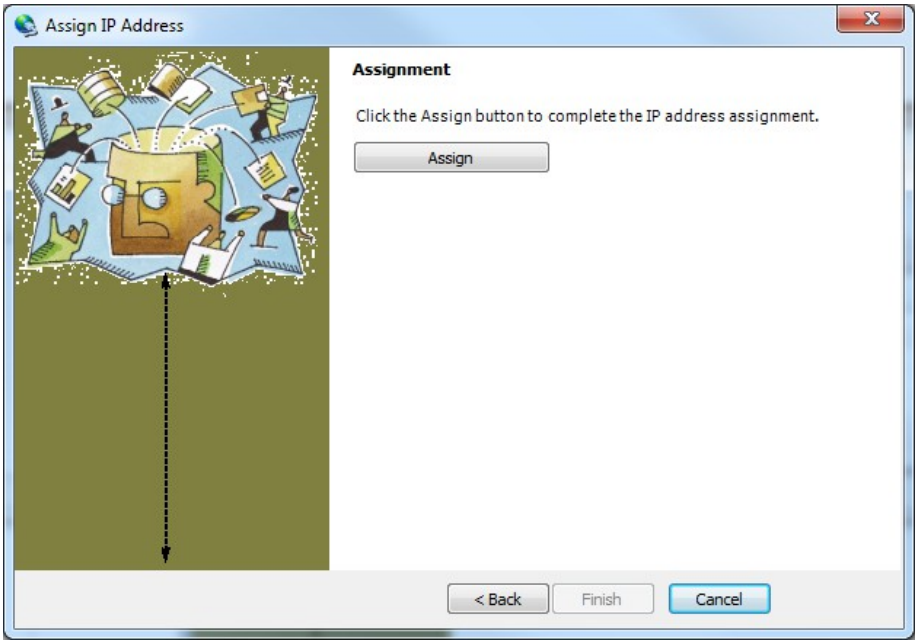
➔ Click on **NEXT**

To manually assign the new **IP Address.**


Assign IP Address
IP Settings
Please fill in the IP address, subnet, and gateway to assign the device. The subnet will be filled in automatically as you type, but please verify it for accuracy. Incorrect values in any of the below fields can make it impossible for your device to communicate, and can cause network disruption.
IP address:
192.168.0.125
Subnet mask:
255.255.255.0
Default gateway
192.168.0.1
< Back
Next >
Cancel

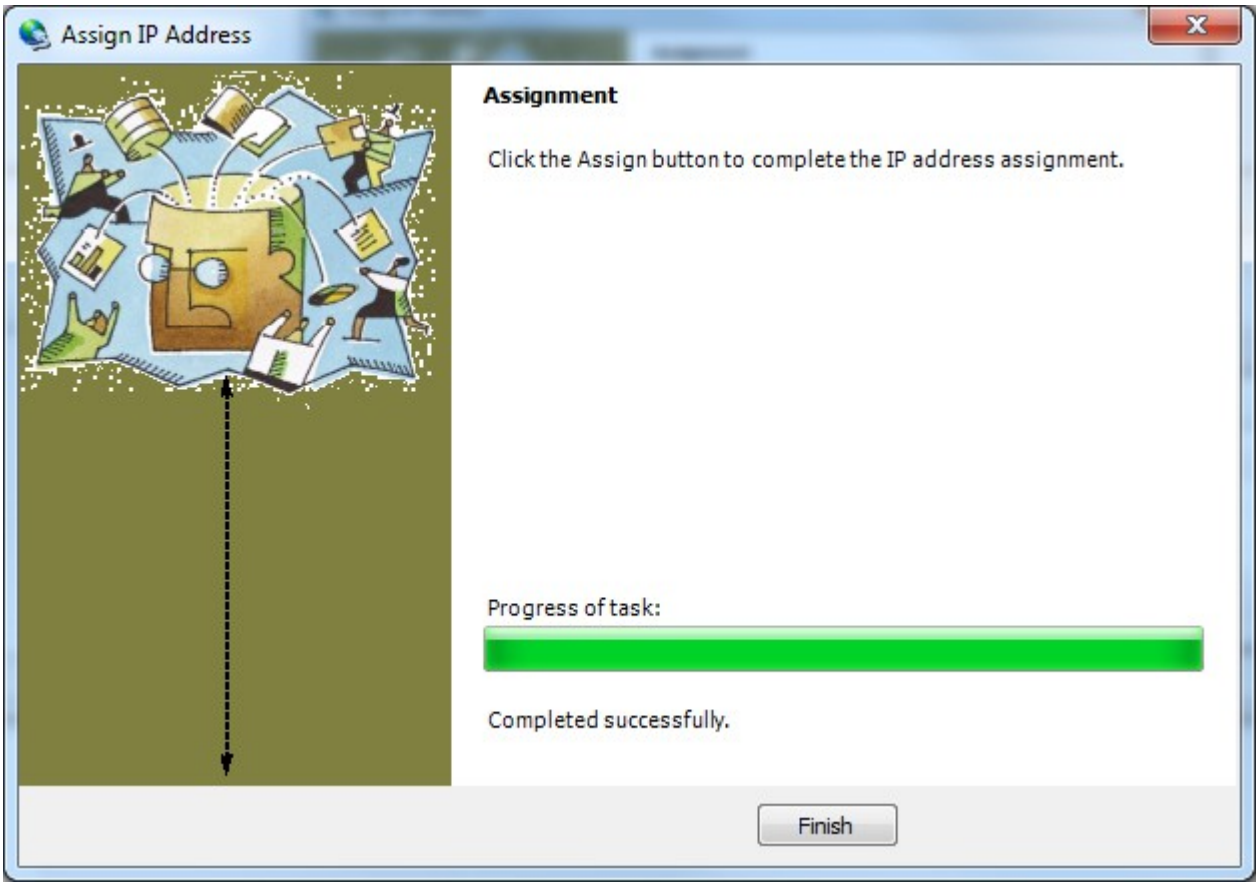
Now you can change the New IP address.
You can change also the default gateway if it's known.

➔ Click on **NEXT** when it's OK

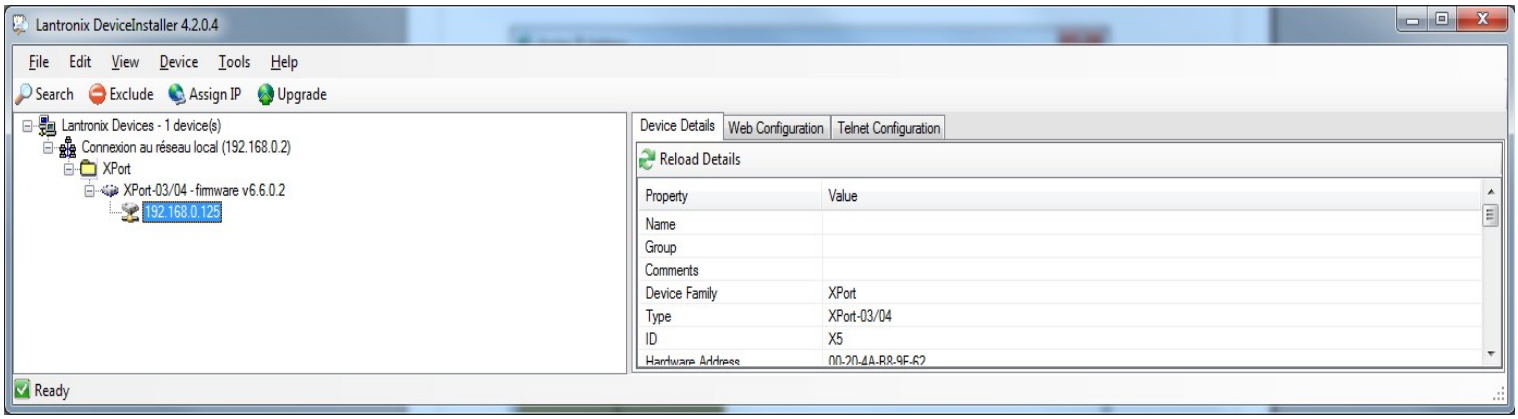


➔ CLIC on **ASSIGN**

The computer will download the new IP Address.



When it's finish, the new IP Address is displayed for this module.



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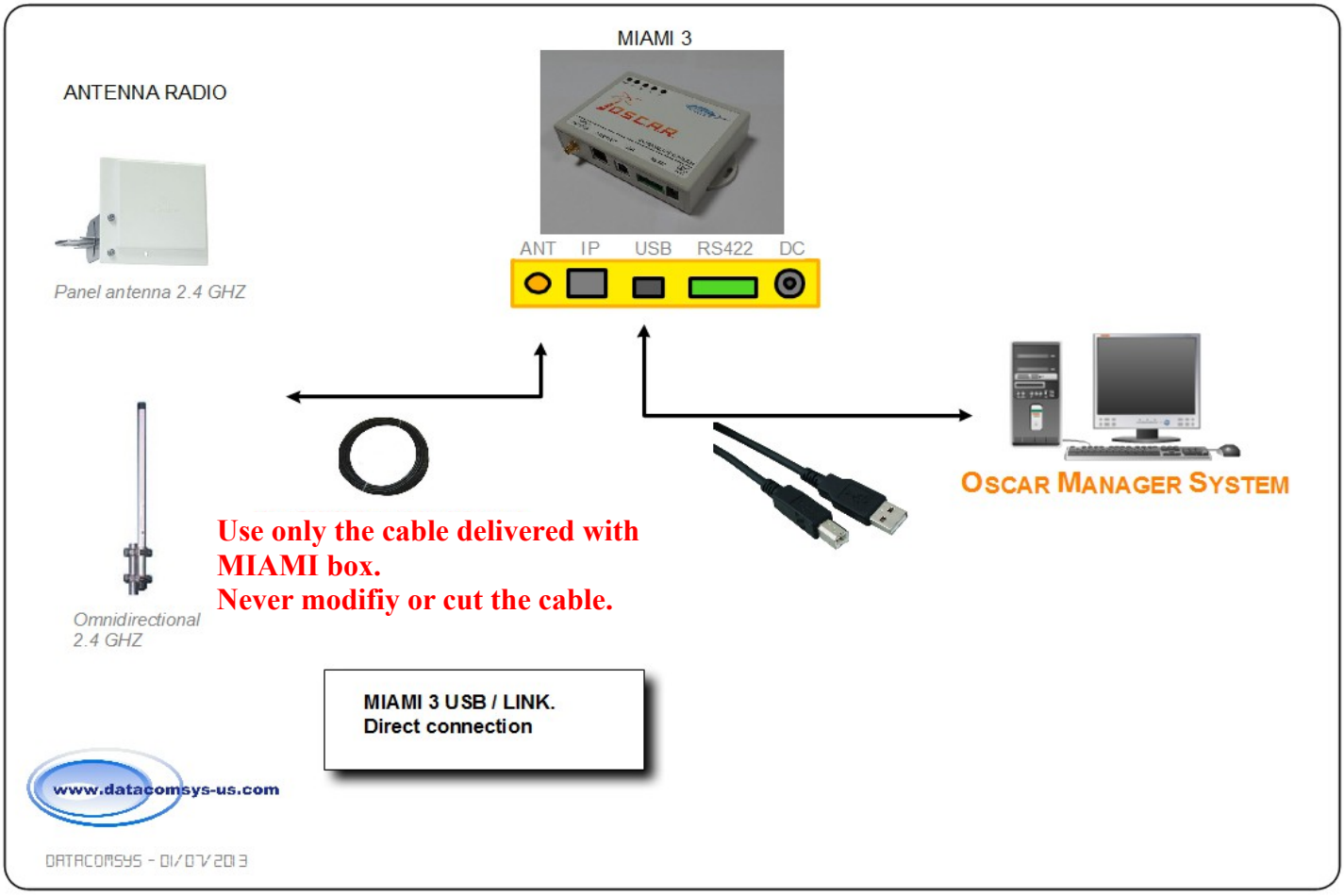
USB Connection:



USB connection is easier.

Power is direct via USB cable.

Only connect USB cable and download FTDI driver (or accept automatic download through Windows update).

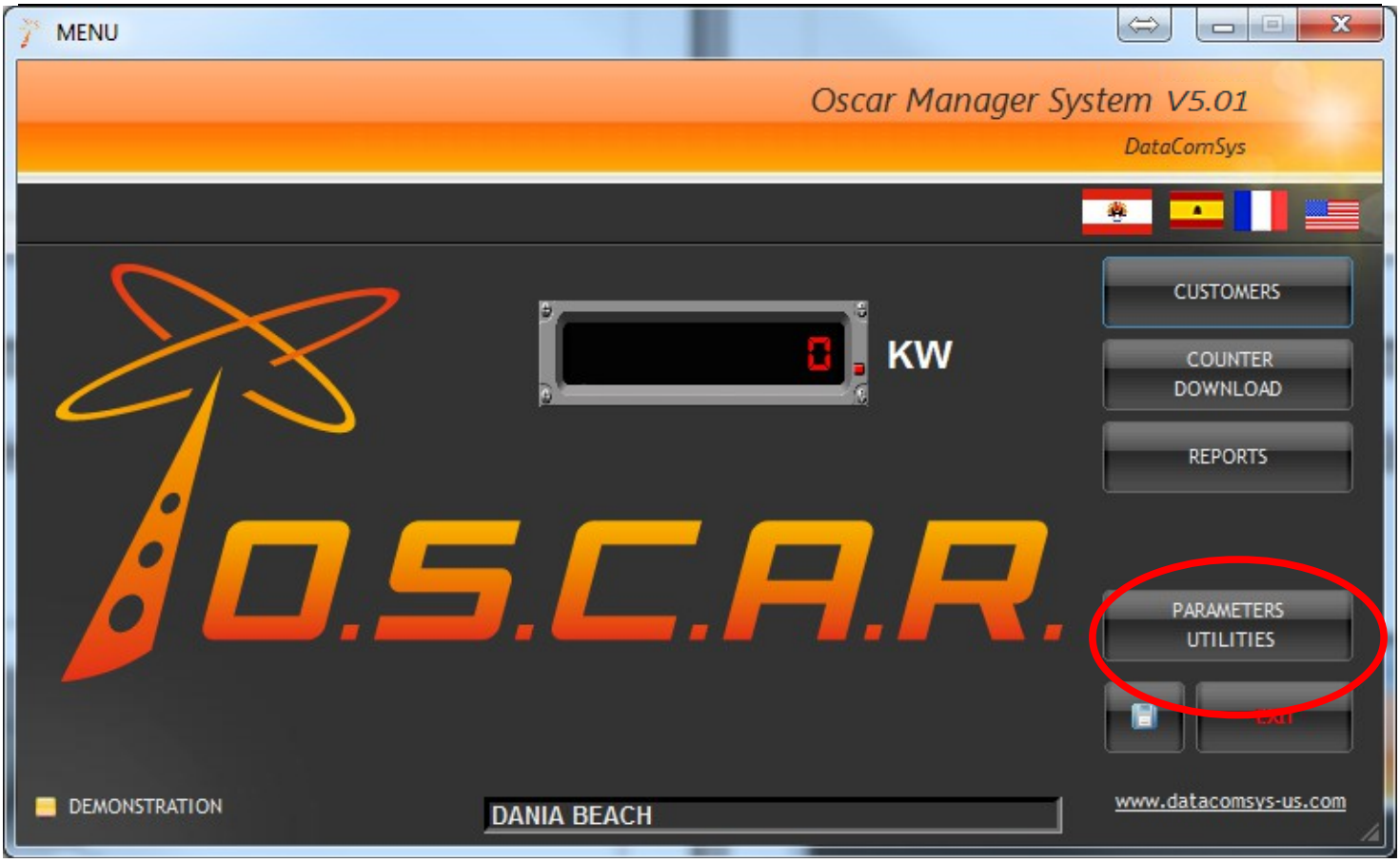
FTDI drivers are stored in the CD in Utility section:

Select i386 directory.

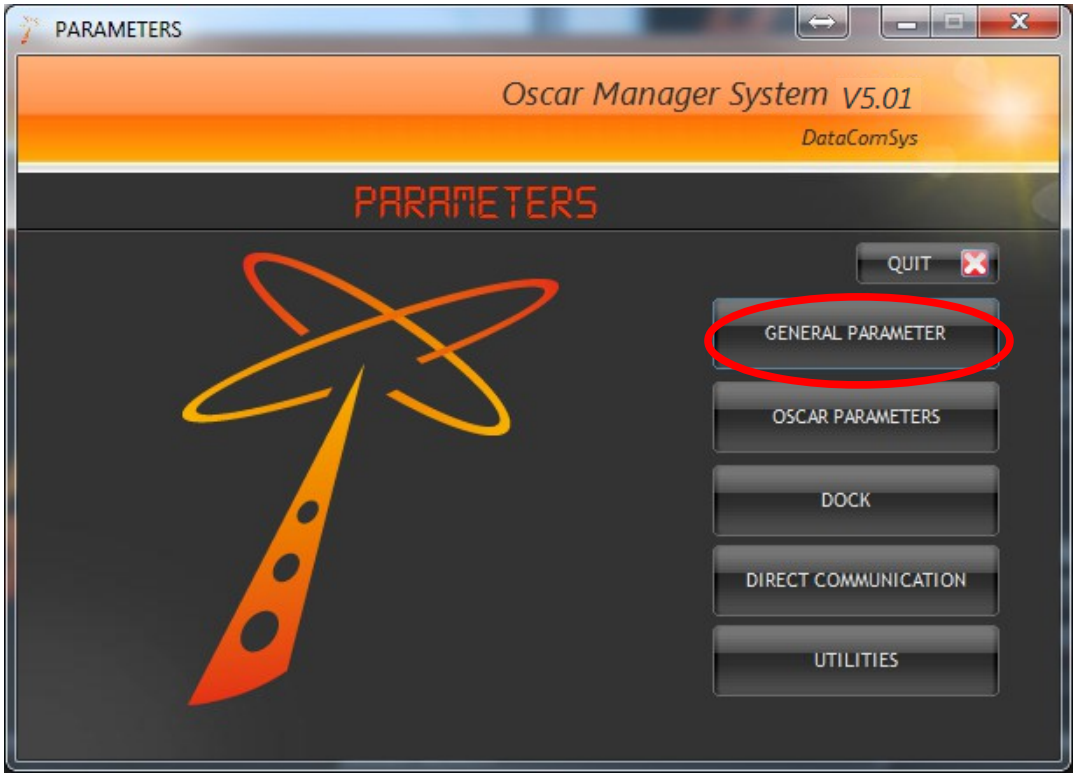
More information about latest driver:

http://www.ftdichip.com/FTDrivers.htm

MIAMI software SETUP



Select **PARAMETERS / UTILITIES**



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GENERAL PARAMETER / COMMUNICATION

MODIFY the windows with the new information.

ETHERNET / IP CONFIGURATION

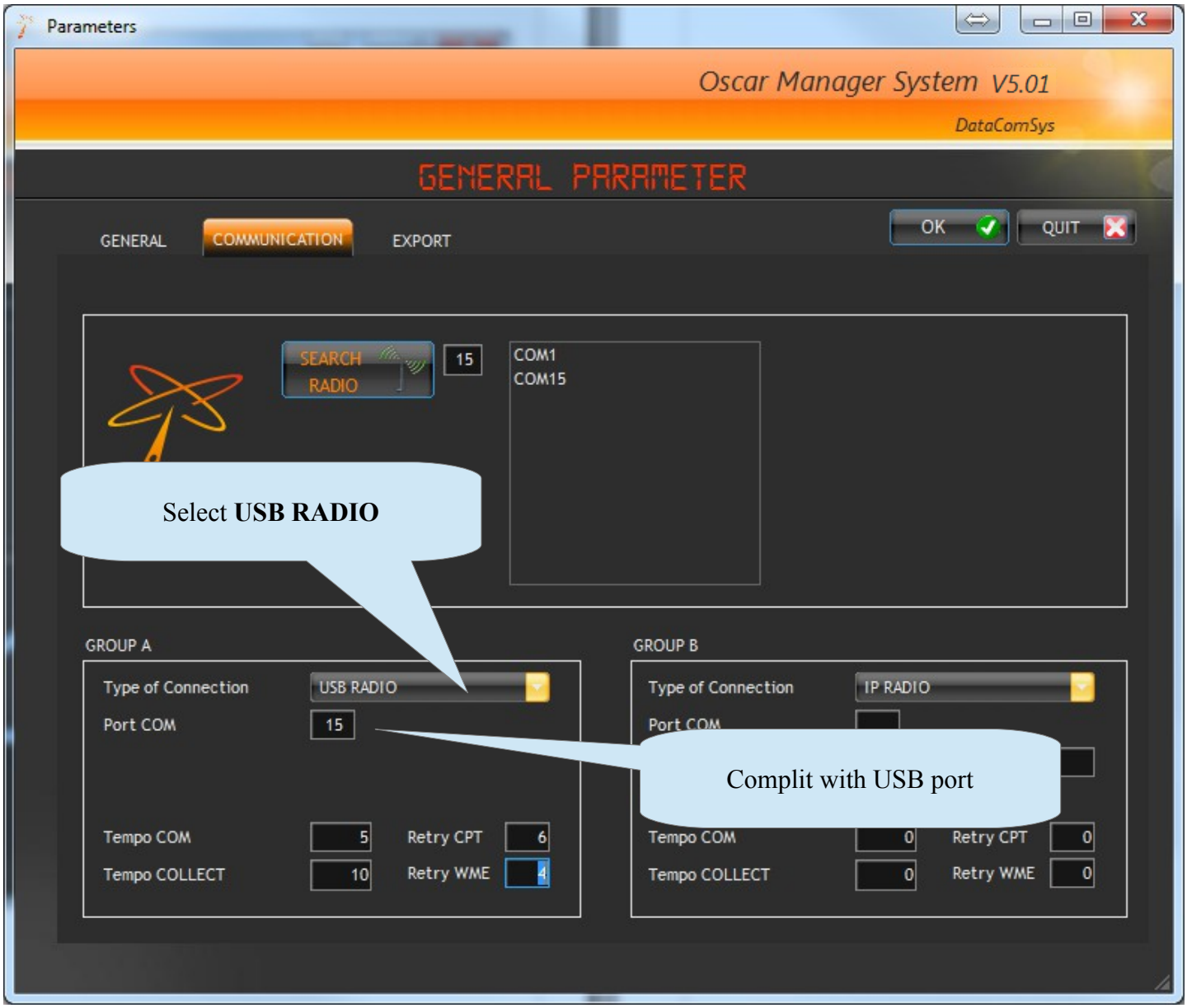
There are only **3** parameters: *(only select Group A).*

- Type of Connection – **IP RADIO**
- IP Address
- Port IP always **10001**

Validate with **OK** button.
By default:

Tempo Com: 5
Tempo Collect: 10
Retry CPT: 6
Retry WME: 4

USB CONFIGURATION



To help you to select which USB port is connected, in the box on the right of SEARCH, all the com port available are displayed.

You can also use the search radio button to check all the USB ports and display which one is connected with Miami box.

By default:

Tempo Com: 5
Tempo Collect: 10
Retry CPT: 6
Retry WME: 4

OSCAR HARDWARE

www.datacomsys-us.com

CABLING OSCAR
4 COUNTERS

PW1	110V	GREY
PW2	110V	GREY
IN1	INPUT COUNT 1	BLUE
IN2	INPUT COUNT 2	YELLOW
IN3	INPUT COUNT 3	RED
IN4	INPUT COUNT 4	PURPLE
COM	GROUND COUNT 1-2-3-4	BLACK
COM	GROUND COUNT 1-2-3-4	BLACK

110V POWER: 3W

EACH INPUT: GND PULSE (With Common)
ESD Protected / 100 nF

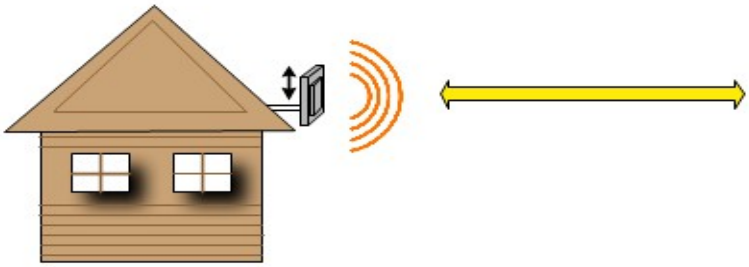
Size: 2,3" x 1,2" x 0,63

This drawing is the property of DataComsys and must not be copied , passed on , or used for any other purpose.

Title: OSCAR CABLING OUNTER	Date: 04/13/11
Client: DATACOMSYS-USA	REF: SCOS-0102
Projet: OSCAR	AUTHOR:

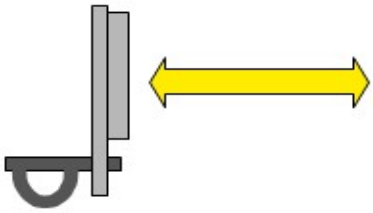
www.datacomsys-us.com

ANTENNA
OMNIDIRECTIONAL



TOP

TOP VIEW



ANTENNA
DIRECTIONAL

Title: Antenna Positioning	Date: 09/24/11
Client: DATACOMSYS-USA	REF: AP-03
Projet: OSCAR	AUTHOR: P.L

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